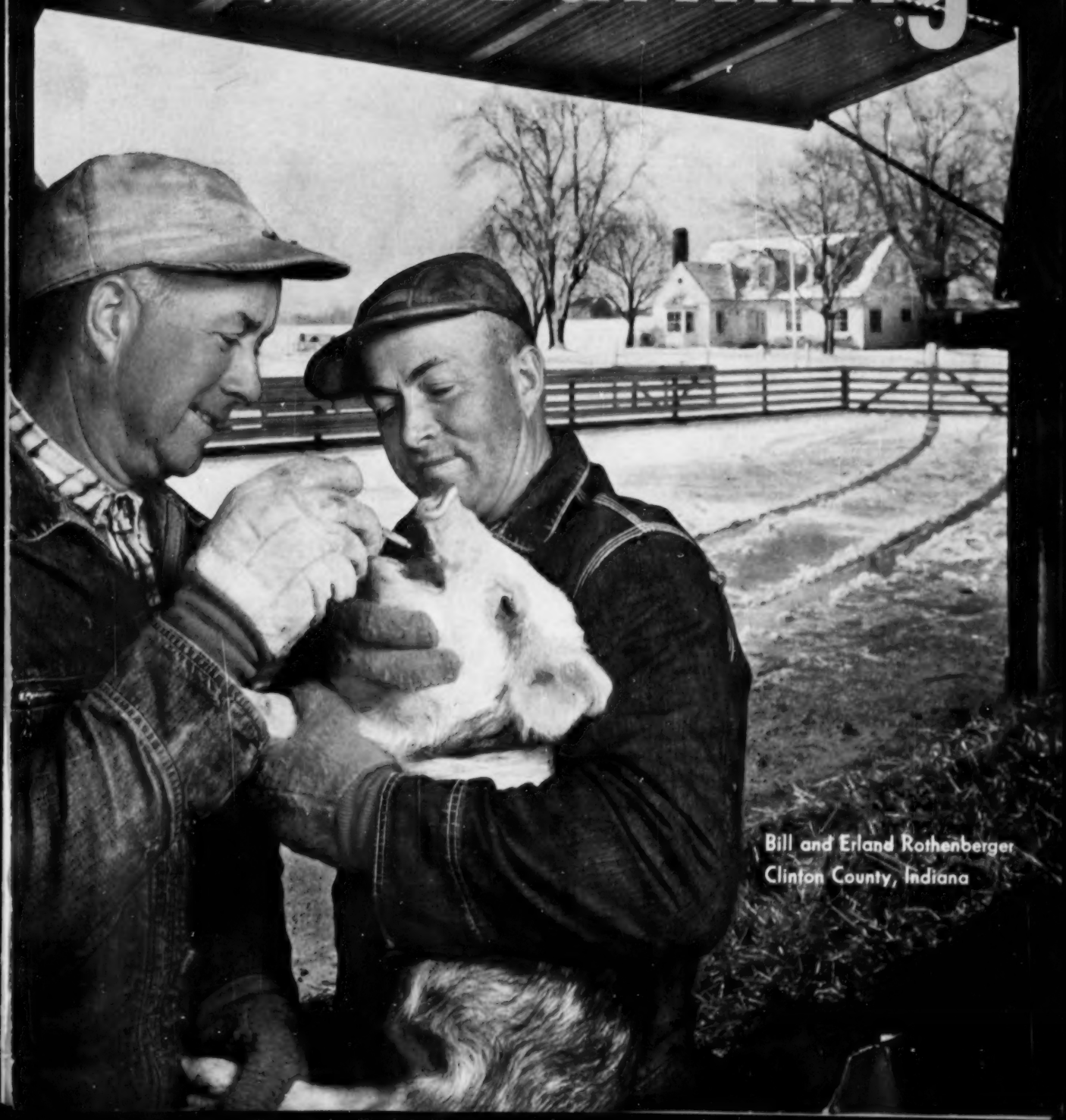
Successful Farming

January 1957 • 25 cents



Bill and Erland Rothenberger
Clinton County, Indiana

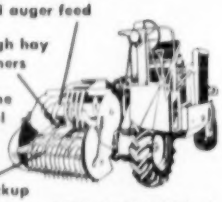
NEW IN THE YEARS-AHEAD UNI-FARMOR FAMILY . . .

UNI-BALOR

WITH ONE UNI-MACHINE OR A FLEET — MM UNI-FARMING PAYS YOU BETTER!

SEE THESE UNI-BALOR ADVANTAGES:

- Controlled auger feed
- Straight-through hay travel. No corners
- Exclusive twine tension control
- Big, 4-foot pickup gets all the hay
- Full size 14x18-inch twine-tied bales



Now, the same basic machine that gives you self-propelled windrowing, forage chopping, combining, corn picking, or corn picking-shelling, does your hay baling, too, to make MM Uni-Farming a still *better* way to farm! The all-new Uni-Balor for the champion Minneapolis-Moline Uni-Farmor takes this self-propelled system a big, new step ahead!

Uni-Farmor machines save you up to $1500 when you buy, save you money every time you add a Uni-Machine because every machine mounts on the same Uni-Tractor. And, when you Uni-Farm, you profit by all the champion advantages that have made the Uni-Farmor overwhelming winner in three straight major corn competitions.

Ask your MM Dealer to show you how Uni-Farming—with one Uni-Machine or a fleet—can pay you better than any other farming method.

UNI-WINDROWER—Open fields anywhere, cut hay or grain as crops ripen. Big, 10-foot capacity with hydraulic height control and constant cutting speed.

UNI-FORAGOR—Uni-Farmor capacity in the lowest-priced forage harvester on the market! Now with interchangeable direct-cut, row-crop or windrow pick-up headers.

UNI-HARVESTOR—Self-propelled operation *plus* famed MM Harvestor performance! Available with hydraulic-controlled 9-foot header or windrow pick-up.

~~DISCOVER HOW~~ NOW TOO YOU CAN GO 100% SELF-PROPELLED IN EVERY CROP AT FAR LESS COST THAN PULL-BEHINDS!

and about half the price of other self-propelleds!

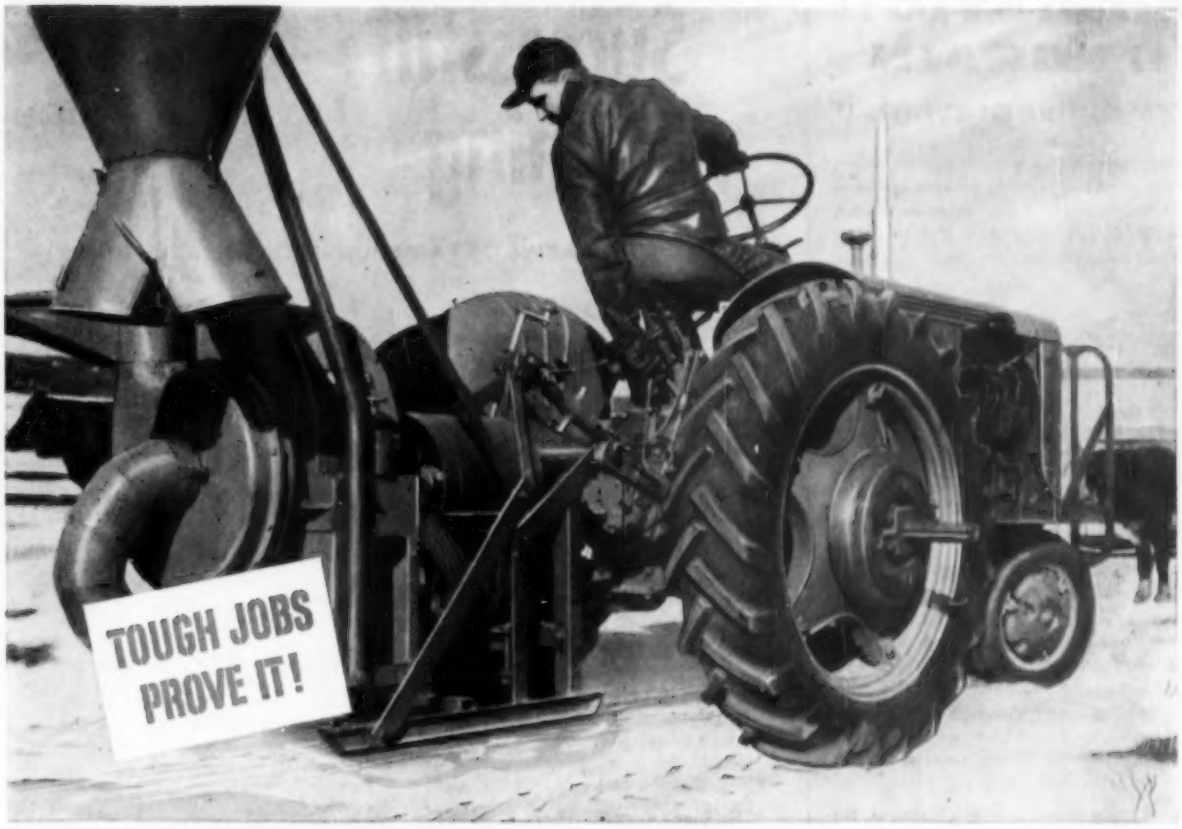
UNI-HUSKOR—The champion corn picker, in major competition and in your corn! Offers MM's exclusive husking bed with rotating and side-to-side action.

UNI-PICKER-SHELLER—Picks and shells corn with up to 30% moisture content in one trip through! You get the picking advantages of the Uni-Huskor and MM Shelling, too.

REMEMBER, ALL THESE UNI-MACHINES EASILY MOUNT ON ONE AND THE SAME UNI-TRACTOR—ASK FOR FACTS!

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA



Even in winter-slick fields
Wedge-*in* action gives best traction!

See why Super-Sure-Grip does more work faster, lowers tire costs—

LONGER, RULER-STRAIGHT LUGS give you more traction area—and because they come *closer together at shoulders* (A) they take *"wedge-in"* bites that *firm* loose footing, deliver the most powerful go-ahead pull.

O-P-E-N C-E-N-T-E-R helps self-cleaning, longer, *ruler-straight* lugs bite deeper, pull better.

GREATER AIR-VOLUME for more flexibility and better ground contact. This also means an easier ride and greater load capacity.

LONG, EVEN WEAR—longer, *ruler-straight* lugs work evenly against soil, roll smoothly on road—and so wear slowly and evenly!

STRONGER BODY gives you added protection against bruise-breaks and the wear and tear of long, tough service. Goodyear, Farm Tire Dept., Akron 16, Ohio.

Super-Sure-Grip — T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

HAULING A HEAVY MULCHER OVER FROZEN PASTURES shows the difference between Goodyear's *field-proved* Super-Sure-Grip and other tires that merely look like it.

For while "looks" may be copied, Goodyears are the *only* foremost farm tractor tires featuring ruler-straight lugs and "wedge-in" action—with all the extra traction, gas savings and labor savings that means to you.

Such extra values are extra reasons why survey after survey shows—

MORE FARMERS PREFER GOODYEAR TRACTOR TIRES THAN ALL OTHER MAKES *PUT TOGETHER!*

GOODYEAR TIRES

Look for this sign; there's a Goodyear dealer near you.

GOODYEAR
Super-Sure-Grip Tractor Tires

MOISTURE MIGRATION IN GRAIN

how Butler prevents it

Drying grain to low moisture levels before storage is not enough to prevent spoilage. Even low moisture grain can cause trouble when it is put in storage and then the weather cools off considerably.

The diagram above shows what happens. Cool weather reduces the temperature of grain near sides of the bin. But the center stays at the temperature at which the grain was stored. Air near the sides, being cooler and heavier, settles and starts slow currents of air in the grain. Warm, moist air in the center of grain rises.

As it nears the surface and is cooled, excess moisture condenses on the grain. If this moisture is allowed to collect, spoilage will set in and ruin the upper layers of the grain.

Butler offers a low cost way to prevent this. It's the Butler Force-Aire system illustrated below. You can choose a Butler bin with a perforated floor, as shown, or one with a Force-Aire duct system. With either arrangement, the Force-Aire fan removes warm, moist air before it can cause spoilage. A few hours of fan operation each week during favorable weather will gradually cool the grain to the point where moisture will not migrate. And lower grain temperature limits and often completely prevents insect infestation. Operating costs are as low as one-half cent per bushel. Grain saved quickly pays the low cost of the Force-Aire system. For details, mail coupon.

Butler Force-Aire system fits new or existing bins.

BUTLER MANUFACTURING CO.
Dept. 484, P. O. Box 7027,
1020 East 63rd Street, Kansas City 13, Missouri
984 Sixth Ave., S.E., Minneapolis 14, Minnesota
923 Avenue W, Ensley, Birmingham 8, Alabama
Dept. 84, South 27th St. and Butler Ave.,
Richmond 1, California

Please send details on preventing moisture migration in bins with Butler Force-Aire equipment.

Name .....

RFD No. .....

Town ..... State .....

Successful Farming®

January, 1957
Vol. 55, No. 1

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

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The farmer whose estate just melted away...

Sometimes, part or all of a farm must be sacrificed when its owner's family is "snowed under" with estate settlement costs.

Perhaps you've known one like him . . . a man who worked long and hard to build his farm into a productive, comfortable source of good living for himself and his family. A farmer whose plans worked out perfectly—except for one vitally important detail. When he died, he left his wife without sufficient cash to cover his estate settlement costs. And both land and equipment had to be sold to meet them.

It's a problem that has confronted all too many farm families . . . because estate and inheritance taxes generally are based on current market values and must be paid *in cash* and *within 15 months!*

That's why it's so important to set up a life insurance plan designed specifically for this purpose . . . a plan based on New York Life's popular low premium Whole Life policy. Whole Life's $10,000 minimum face amount assures immediate cash funds for beneficiaries while building substantial cash values for the policy owner himself. The cash values provide ready funds for an emergency—or can pay the farmer a *lifetime income at retirement.*

Your county's New York Life agent will be happy to give you full information and, if you'd like, will help you round out a plan suited to your needs. Call him, or mail the coupon below.

The New York Life Agent in Your County is a Good Man to Know

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New York Life, a mutual company, pays dividends to policy owners only. It is one of the strongest legal reserve life insurance companies in the world.

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Please furnish, without obligation, your free booklet, "Measuring Your Family Security."

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WHAT'S NEW

Two-row ridge planting

New method has helped Claude Ludwick, Missouri, cut corn-planting costs and reduce soil impaction. Read about his ideas on page 38.

High producing dwarf hybrid corn

It may be only 3 to 5 years away from your cornfield, if you demand it. Illinois researchers headed by Dr. Harold Leng, harvested 125 bushels per acre from waist-high corn this fall on test plots at the university agronomy farm. Dwarf corn, compared favorably with normal hybrid corn in same plot for yield and maturity, was far superior in standability. More work will show how well it can be adapted to conventional harvesting equipment.

Handle with care!

If you are using Sorghum Almum as a drouth crop be aware of these facts: (1) Johnson grass is one of the parent stocks—if sorghum is located near Johnson grass it can backcross and regain problem invader rhizomes; (2) Seed appears identical to that of Johnson grass.

Nitrogen fixation with uranium

Researchers have found a new method for making nitrogen oxides—compressed air is exposed to the ionizing radiations of uranium 235—combining nitrogen in air with oxygen to form nitrogen oxides. One of the oxides, nitrogen dioxide, is valuable in making both fertilizers and nitric acid. New process is faster, less expensive than present ones.

SOILS AND CROPS

OUTLOOK

Hold feed grains for higher price

Plan a holding operation this year on all cash feed grains. Although total feed supplies continue at record levels, "free" supplies are likely to be tight in late spring and summer. Prices for most feed grains now are on a moderate upward climb, with a sharper increase possible next summer—before harvest.

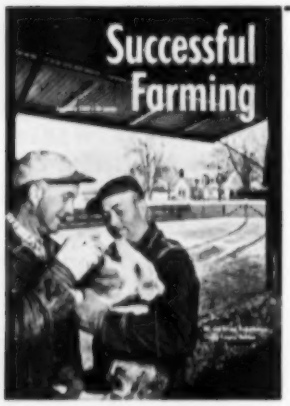
Corn may become scarce, too

Despite the big corn crop—second largest on record—market supplies may be quite scarce by summertime. U.S.D.A. expects to take over more sealed corn this year.

It means: The corn supply outside the support shelter will be less. Prices are likely to be stronger in the western Cornbelt, than east.

Wait for higher wheat prices

Why? Total supply is down, while foreign demand is up. Western Europe had a poor wheat crop last summer. And the '57 crop here at home will be the smallest in years. Big acreage of winter wheat is in soil bank.



On the cover

Frankfort, Indiana—Winter or summer, it's always hog-raising time on the Bill and Erland Rothenberger farm here in Clinton County. The brothers are shown treating one of the 1,282 porkers they raised last year. Their expanding hog business employs the latest scientific know-how, as described on page 32.

In this report of how the Rothenbergers produce pork efficiently and profitably, you undoubtedly can find some ideas for your own hog operations.

Subscription Correspondence: Any questions concerning subscriptions can be answered more quickly if accompanied by an address label clipped from a recent copy. Any time you are not satisfied, your money will be cheerfully refunded. For continuous service, a renewal must reach us at least 30 days before expiration of the old subscription. **Rates:** New and renewal subscriptions, one year $1 in the United States and possessions, Canada, and Pan-American countries. Other countries $2 per year. **Change of Address:** Five weeks' notice is required. Please report any change of address to *Successful Farming*, Des Moines 3, Iowa, rather than through your local post office. Send old address as well as the new, enclosing an address label clipped from the cover of a recent copy.

NEW COMFORT WITH OIL HEAT

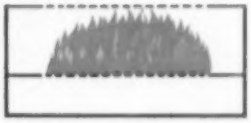
Now you get STA-CLEAN in both STANDARD Heating Oils!

New STANDARD Heater Oil with STA-CLEAN
Trade-mark

- **Burns Up to 50% Cleaner**—burns clean and steady . . . even at low flame.
- **Flows freely at low temperatures**—won't gum or deteriorate in storage.
- **Protects tank and fuel lines against corrosion**—keeps your heater working like new!

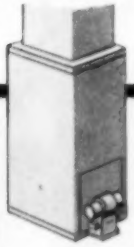
LOW-FLAME TEST PROVES CLEANER BURNING

With Ordinary Heater Oil, low-flame burning often looks like this—the flame flickers, smokes, smells . . . may even go out! Soot and sludge clog vital parts. Result—discomfort . . . troublesome cleaning . . . expensive repairs.



With new STANDARD Heater Oil with STA-CLEAN, you get steady, even burning—free from soot and odor—at low *or* high flame. Result—clean, dependable, economical comfort . . . on chilly Fall days as well as cold Winter nights.

If you have a space heater or furnace requiring a No. 1 fuel, get STANDARD Heater Oil with STA-CLEAN. Use it, too, in water heaters—chick and pig brooders—other burners around the farm and home requiring this type of fuel. *You can't buy a better heater oil!*



For furnaces and other heating systems requiring a No. 2 or No. 3 fuel . . .

STANDARD Furnace Oil with STA-CLEAN
Trade-mark

STA-CLEAN, the patented additive in STANDARD Furnace Oil, is a detergent, a rust-preventive and a preservative. It keeps filters, screens and nozzles clear—the oil fresh—the tank free from rusting. You get the steadiest, most comfortable heat possible!

FLAME COMPARISON SHOWS STA-CLEAN ADVANTAGES

STANDARD Furnace Oil with STA-CLEAN gives full-formed, intense flame with more live heat per gallon.

Ordinary Furnace Oil gives weak, smoky, distorted flame due to clogged parts and incomplete combustion. You don't get your money's worth of heat.

PROMPT, DEPENDABLE DELIVERY, TOO!

Your nearby Standard Oil Agent will give you prompt, dependable delivery of STANDARD Heater Oil with STA-CLEAN, or STANDARD Furnace Oil with STA-CLEAN, *all winter long!* Fill up now.

CALL YOUR STANDARD OIL AGENT, TODAY, and FORGET YOUR HEATING WORRIES!

You expect more from STANDARD and get it!

QUALITY PRODUCTS • FRIENDLY SERVICE • DEPENDABLE DELIVERY

WHAT'S NEW

Liquid feeds

Will they fit into your livestock feeding program? No longer a thing of the future, they're now available. See Vernon Schneider's up-to-date report on page 42 of this issue.

New brucellosis regulations

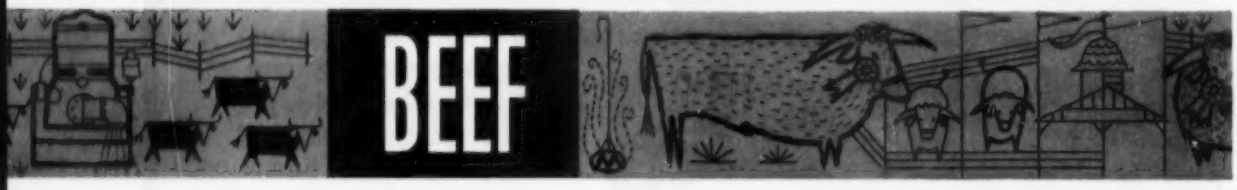
Recent amendment to federal regulations governing interstate shipments of animals and poultry will help assure nation's success in brucellosis eradication program. New amendment will strengthen and unify control of interstate shipment—especially to areas already designated as modified, certified brucellosis free.

Summary of stilbestrol feeding

Here's a summary of diethylstilbestrol experiments at Iowa State as compiled by Dr. Wise Burroughs. Key conclusions: (1) Stilbestrol is very effective in dry-lot cattle feeding rations—21 experiments show 17-percent increase in gains, 12-percent feed savings; (2) adding stilbestrol increased gains 11 percent with 10-percent feed savings, in growing cattle rations producing gains under 2 pounds daily, 3 experiments show. (3) In 18 comparisons, adding antibiotics to stilbestrol rations gave no improved gains or feed efficiency over stilbestrol alone; (4) feeding stilbestrol in ration was best all-around method of administering it.

Homemakers affect beef trend

Whims of American homemakers may influence kinds and types of beef produced in the country. L. E. Kunkle, Ohio State University meats researcher, stated in a recent talk that preferences shown by buyers in meat markets indicate trend away from fat in beef. Homemaker wants cuts of meat she can prepare and have ready to serve in short time, though she still wants all the nutrients and rich flavor that come from the fancy Prime roasts. Kunkle thinks the kind of animal that will expand the beef market, will: weigh about 950 pounds—no more; be marketed at 14 to 16 months of age; and here's the big requirement, have a carcass yielding 80 percent edible meat! To meet consumer demands economically the fat content would be 7 percent, leaving 13 percent for bone.



OUTLOOK

Less meat for the table in 1957

The American people who have had more meat each year for 5 years will get less in 1957.

The supply, which climbed from 136 pounds per person in 1951 to 164 pounds in '56, is expected to drop back to around 157 pounds in '57.

Supply of beef per person may be down too

Supply was a record 83 or 84 pounds in 1956, may be a little less in '57 on account of lighter slaughter weights for fed cattle.

What this means: This cut in the meat supply, together with some increase in consumer buying power, should give strong support to prices of meat animals in 1957.

Beef situation reversed this year

The beef cattle situation in 1957 may be somewhat opposite that of 1956. That is, the first half of the year may be better than average, while the last half is disappointing.

Best bet is still to head Medium and Low-grade cattle for April-May-June, and High-quality steers for August-September-October.

Highest profits in higher finish?

Best beef profits this winter and spring may show up in feeding to higher finish. If you've got a source of cheap feed, a long feeding operation could pay off—you'd take advantage of the big trend to quick feeding, quick selling. On the other hand, if you're buying feed, the "quicky" route still is safest.

Choice and Prime steer prices moving down

Prices of the top grades this winter will be moving down seasonally, but not as low as a year ago. Prices this summer won't go up to last summer's peak. Look for trouble next fall when the big volume of calves going on feed start coming to market. Also next fall, there'll be more competition from grass-fed stuff—if the Southwest drouth isn't broken by then.

4 good reasons for putting new Champion Spark Plugs in all your farm engines

1. EASIER STARTING—Quicker, easier starts in any weather are yours when you replace worn plugs that have gone 10,000 miles or more with new 5-rib Champions. Tests show starts average 39% quicker. Saves battery wear and tear.

2. GREATER ECONOMY

Replace misfiring, gas-wasting plugs with new full-firing Champions for greater economy. Powerfire electrode delivers peak performance for full plug life.

3. BETTER ENGINE PROTECTION

Misfiring plugs drip raw gas that dilutes and weakens protective engine oil. Install a set of new full-firing Champion Spark Plugs to help prevent costly engine repairs.

4. MORE HORSEPOWER

Tests prove that replacing worn plugs with new Champions gives 9 out of 10 cars more horsepower instantly, delivers maximum power in all engines.

Are the engines that help lighten your work doing their best for you? Not if they are crippled by worn, misfiring spark plugs! Replacing old plugs with new 5-rib Champions can give you easier starting, greater gasoline economy, increased oil protection, and more useful horsepower in all your farm engines.

If a check shows worn or badly fouled plugs in any engine, replace them with a set of new Champion Spark Plugs. You'll get more help at lower cost when you do.

DEPENDABLE

CHAMPION

SPARK PLUGS

CHAMPION SPARK PLUG CO. • TOLEDO 1, OHIO

WHAT'S NEW

Lower total feed costs
Hand feeding gilts during gestation gave 30 to 34 percent lower total feed cost per gilt than self-feeding at Purdue—net costs per pig at farrowing time were 30 to 37 percent lower for hand feeding.

Arsanilic acid as growth stimulant
Preliminary studies at Minnesota station showed response from .05 percent level mixed with corn and supplement. It is nontoxic at this level. More research is needed, though.

Serosal disease
A new disease problem recently reported from Wisconsin and evidently caused by a virus. It usually affects pigs 4 to 12 weeks of age and death rate may be as high as 90 percent.

Prestarter rations
Those for baby pigs under 2 weeks should be fortified with pepsin, point out Iowa State nutritionists—to overcome digestive enzyme deficiencies. Tests continue to show the greatest response where disease level is high. This is true also in antibiotic feeding.

Free-choice rations
Pigs in Purdue test gained more economically than on complete mixed ration. Factors in favor of free-choice feeding: Reduced feed costs, increased feed efficiency, less wasted feed.

Michigan specialists say: Feed-mixed rations for faster gains till pigs reach 75 pounds, then switch to free choice and benefit by cheaper gains. Palatability of free-choice feeds is important.

Balbo rye pasture
It can replace an economically important part of concentrates in sows' ration during winter months. Kansas researchers fed 50 percent less concentrates to sows on pasture, yet sows farrowed not only more, but larger and stronger pigs.

Bulk for bred gilts
Good results with up to 45-percent dehydrated alfalfa meal in total ration in Minnesota college tests—or substitute ⅔ of alfalfa meal with ground corncobs. Cobs keep sows in vigorous condition, yet not too fat when ration is self-fed.

An 8.07-square-inch loin eye
This "whopper" was included in a recent official certification report to a breed association—from a 198-pound barrow at 171 days of age. Loin-eye average, including a 7.76-square-inch loin eye of littermate barrow, exceeded minimum certification requirements by 123 percent.

Atrophic rhinitis
U.S.D.A. finds it has no measurable effect on sows' productivity, but does inhibit growth rate of their pigs. Disease itself does not kill but major economic loss results from slower body development. First reported in 1944, it's now a major disease; cause is yet unknown.

Specialization gets results
Hog raising is a business on the Bill and Erland Rothenberger farm, Indiana—and a paying one, too. See page 32 for the story of their efficient, up-to-date hog business.

OUTLOOK

Hog prices will be higher in 1957
U.S.D.A. outlook economists say there's no doubt about higher prices for hogs—confirming our earlier forecast.

Here's what they say: With smaller slaughter this winter, prices will preserve the margin they've been holding over last year's levels.

Since we've passed the winter low—roughly $14 plus—January prices for barrows and gilts at Chicago may be about $15; in February, approaching $16; and in March, above $16. That's the forecast with this big if: *If* prices continue as "volatile" on the upswing as they've been on the downgrade, look for sharper and higher price rises.

Don't hesitate in boosting hog production
All signs, say the economists, point to higher prices for most or all of 1957. If the 1957 spring crop turns out as predicted—"slightly less" than in 1956—prices for those hogs will be higher than for 1956 spring pigs.

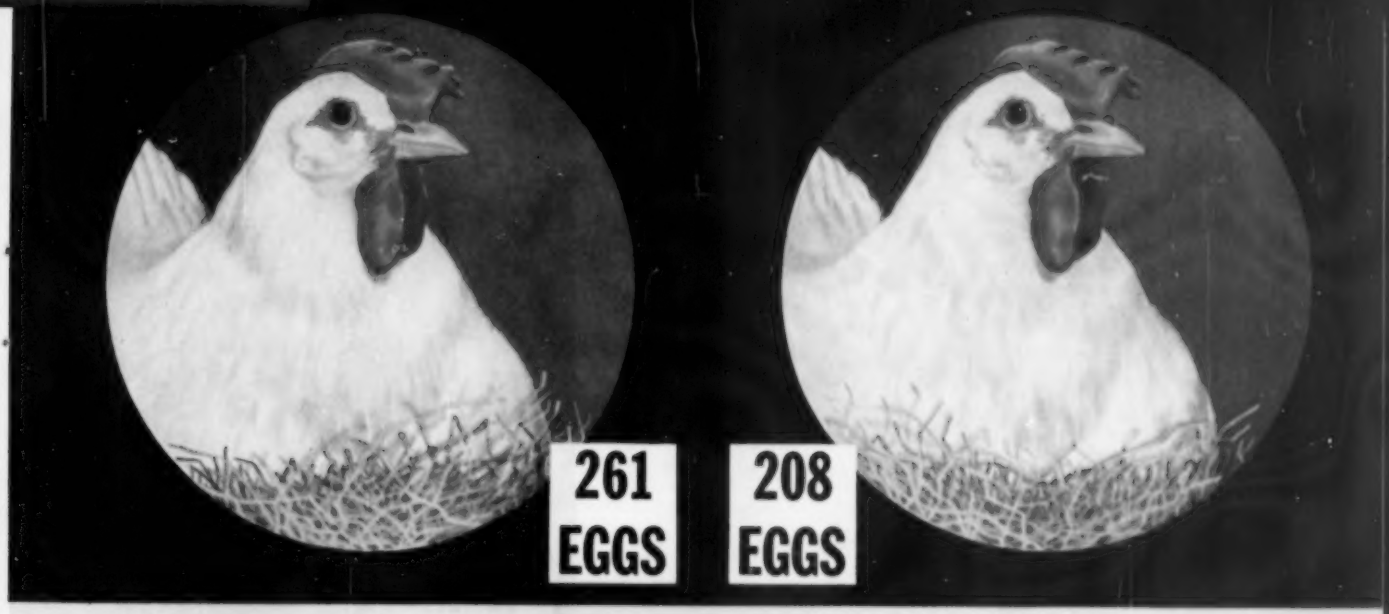
Outlookers tell us: "Seriously depressed prices are not in prospect for the next year or so." That's your go-ahead signal.

Prices will vary between country markets
That's because of the uneven production throughout the hog-producing area.

For instance, while intentions for early spring pigs in the Cornbelt as a whole were down 4 percent, they ranged from 10 percent down in Ohio to 4 percent up in Illinois. Iowa intentions were down 3 percent. Variations in farrowings will prevail *within* states, too.

What to do: Compare markets carefully when you sell your hogs this year.

FOR ALL THAT'S NEW IN ALFALFA



WHY DID HENS IN ONE GROUP AVERAGE 53 MORE EGGS PER YEAR?

Here's the major scientific development behind the

NEW EXTRA-PRODUCTION LAYING FEEDS

CONTAINING TERRAMYCIN

A new kind of feed is now bringing flock owners an entirely new way to get more eggs.

These special Extra-Production Laying Feeds are the first to contain antibiotics for increasing egg production in *healthy flocks under normal conditions*. They also maintain a higher rate of lay in the presence of disease and help to prevent laying slumps during bad-weather stress periods.

They are the result of extensive testing with many different antibiotics, at many different levels, at many different university farms and research centers. In test after test Terramycin filled the egg crates faster—with substantially lower feed cost per crate.

When pullets got feed containing Terramycin they came into peak production sooner than ones from the same flock that got the same feed without Terramycin. They maintained a rate of lay 6 to 37% higher and mature hens were kept in production for a longer time. In these tests, a few cents extra for Terramycin in the feed returned extra profits of up to $1 per hen per year.

When you get one of the new Extra-Production Laying Feeds containing Terramycin you can be sure it also contains the right balance of other ingredients that help you get the most extra eggs at the lowest production cost per dozen. Ask your feed dealer when he will have it in your favorite brand.

Terramycin

BRAND OF OXYTETRACYCLINE

NEW WAY TO GET MORE EGGS

Chas. Pfizer & Co., Inc.
Brooklyn 6, N. Y.
World's largest producer of antibiotics

Pfizer

FOR ALL THAT'S NEW IN ALFALFA

SEED Certified SEED

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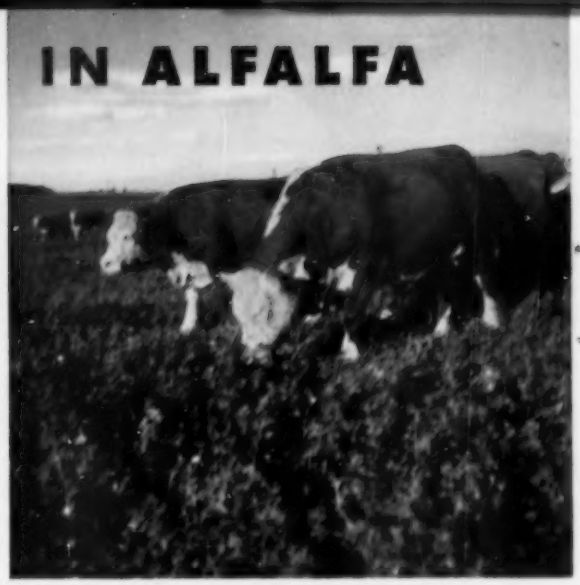

1 **PASTURE** must be tough—and new Certified Alfalfas can take it. For this reason they tend to be longer-lived, withstand trampling better.

2 **GRASS SILAGE** . . . New, Certified Alfalfas are your best assurance of bigger tonnages of high protein grass silage. You sell more meat and milk per acre.

3 **GREEN FEEDING** clearly shows advantages of new, Certified Alfalfas. They tend to withstand clipping better, and produce finer-stemmed leafier growth.

4 **HAY** Biggest news is that many new certified alfalfas give one whole cutting of hay more per year. You also get thicker stands, finer stems, more leaves, fewer weeds.

WHAT'S NEW

Antibiotic-loaded milk

Health authorities report thousands of dollars' worth of milk dumped each year due to improper use of antibiotics. Most of the trouble is due to keeping milk too soon after the cow has been treated.

A plant in Grand Rapids, Michigan, milkshed area reports $4,250 worth of milk recently dumped from cottage cheese vats because of failure to ripen due to antibiotics. Levels in milk from treated cows are low enough 72 hours after treatment ends for human use, but enough still remains in the milk to interfere with cheese processing.

Michigan veterinarians say greater efforts in mastitis prevention would mean less treatment needed, reduced problems for milk plants, and less reflection in the form of higher marketing costs.

Quality roughages

Plan ahead now for liberal supplies. They're good body builders for dairy cattle, say Purdue agronomists, and they add: Good grazing plus adequate amounts of hay or silage means large, growthy herd replacements. Cows in production require large amounts of roughages per day.

High-moisture grass silage

It needs to be supplemented with feed that will increase the total dry matter and total digestible nutrients, says J. B. Williams, Minnesota dairy specialist. There's only half the dry matter feeding value per pound of 80-percent moisture silage, compared to that with 60 percent moisture. Remedy the problem by varying the proportion of roughage: with 60-percent moisture a 1,400 pound cow might receive 80 pounds of silage, 5 pounds alfalfa hay, 10 pounds of 12-percent protein-grain mixture; with 80 percent moisture, same cow would need 50 pounds of silage, 20 pounds of hay, 10 pounds of the grain mix to provide the same amount of total digestible nutrients and dry matter.

Cattle abnormalities

You are likely to be hearing more talk about them in the coming months. The most common ones are dwarfing, parrot jaw, popeyes, and taillessness. You can better safeguard your dairy breeding program by knowing how they enter into inheritance. L. O. Gilmore, Ohio Agriculture Experiment Station, who is studying the problem, feels abnormalities are becoming increasingly important with greater use of a single sire through artificial insemination. Though all types of livestock show these faults, dairy cattle seem to be hit hardest.

Weigh-a-day-a-month program

Introduced during the last year it's gaining momentum in dairy states. This new plan, supplementing existing testing programs, is extending record keeping to thousands more dairy farms where production records are needed to increase efficiency of operation.

Lice problems?

If so, you can safely use properly mixed amounts of lindane, methoxychlor, or rotenone, as sprays or dusts.

OUTLOOK

Make your operation more efficient

And produce more milk in 1957—if you want to hike your income. U.S.D.A.'s outlook economists predict farm prices this year will be about the same as last year. But if supports are lowered in April, market prices would be lower and make it even more necessary to up production.

Danger in increasing output nationally, of course, lies in the surplus which may bring on more serious problems in future years.

1957 production will set record

Milk production in 1957 now is estimated officially at a new record of 130-billion pounds, as we have been predicting. This compares with 127 to 128 billion last year. But since the expanding population is expected to consume 2 billion pounds more than last year, the surplus is likely to continue at the 1956 level of 5 billion pounds.

Adding up, here's the picture: Consumer demand for fluid milk and cream is up, and the price of manufacturing milk probably will be supported at last year's level. If you made money on milk last year, you should do even better this year on bigger production.

No Class I seasonal decline?

An even bet is that the federal government will suspend the seasonal decline in Class I milk prices in federal order markets this spring, as it did last year. Prices of milk in nonorder markets tend to follow prices in so-called order markets.

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GARDOL IS COLGATE'S TRADE-MARK FOR SODIUM N-LAUROYL SARCOSINATE.

POULTRY

WHAT'S NEW

Diethylstilbestrol use O. K.

No extra dressing loss of diethylstilbestrol-treated cockerels, state North Dakota poultry researchers. Comparison was made of treated and untreated birds of the same age and breed. Used in pellet form, diethylstilbestrol resulted in putting more weight on male chickens heading for market. Results are similar to surgical caponizing, adding tissue fat, boosting the market grade and eating quality of the birds.

Grit good for caged hens

Feeding grit to caged hens increases egg production and feed conversion, report Iowa State College poultry nutritionists.

High, efficient winter egg production

Culling poultry flocks will help to maintain high levels, but don't cull too early or too severely, warn California poultry scientists. Their recent studies show it's best to wait till hens have reached 90 percent sexual maturity. They add—visual culling is good, but you can expect greater accuracy when it's combined with egg-laying records.

Music has its effect

A new angle in poultry raising—soft background music, the kind heard in hotels and restaurants—was used in poultry houses on a Connecticut farm. The result, says the poultryman, was that chickens gained more weight with less feed when raised with music. Weight of birds serenaded with music was 3.19 pounds at the end of 10 weeks, mortality 5.2 percent. Those given the silent treatment weighed 3.14 pounds, mortality 6.3 percent. Draw your own conclusions as to the value of music in a poultry house.

Reduce CRD problems

If you are a hatchery egg producer—here's news. Transmission of pleuropneumonialike organisms through eggs is one of the principal causes of CRD (chronic respiratory disease). This can be greatly reduced by monthly streptomycin injections for breeder hens. There will be still greater effectiveness from added amounts of streptomycin and penicillin in hens' feed, according to reports at annual symposium on antibiotics at Washington, D.C.

Extra eggs

When antibiotics are added to poultry rations, expect to get about 4 dozen extra eggs per year per hen, report feed manufacturers.

Hens are light-shy

Keep light out of community nests as much as possible, say poultry specialists at University of Minnesota. When hens refuse to use community nests, it's usually because too much light enters the nest. With any kind of nest they recommend: (1) Start pullets on kind of nest they will use in the laying house; (2) Don't change to a different nest after the pullets are housed; (3) Use only one type of nest in the same pen.

OUTLOOK

The 1957 egg outlook is gloomy

Forecast is for lower-than-1956 prices and record-high production. Only way to bring in more cash is to produce more eggs. But if you do, you'll be contributing to the surplus which is forcing prices down. However, if you need the money and can produce more eggs, don't hesitate to expand.

Prices just ahead: While outlookers aren't spelling it out so closely, they look for farm egg prices in January to average about 5 cents a dozen less than a year ago. Prices are expected to strengthen in February—to within 3 to 4 cents below a year ago. During the rest of spring, prices are likely to run 2 cents a dozen below last spring.

Next fall: Egg prices are expected to be about the same as last fall—if the egg supply *is as large* as last fall.

Spring broiler picture looks better

Commercial broiler men did poorly last fall, with prices in many cases not even returning the cost of feed and chicks. Many broiler raisers got nothing for their facilities and labor.

The picture will be different next spring. Production likely will be down enough to make for better prices and some profit for broiler growers.

Turkey growers must slow up

If they want better markets for their birds, U.S.D.A. says turkey raisers must pull in their horns.

Another record crop is forecast with prices below 1956. A recent survey shows there'll be 16 percent more heavy-breed turkey hens in action in 1957. If so—prospects point for a really big turkey price bust next fall.

IN OREGON, Darrell Perry, lineman, helps bring some 52 miles of telephone line into Powder River Valley. This $50,000 project connected 56 ranch families with the world and helped them overcome fire, grazing and water problems.

IN KANSAS, Mrs. Dorothy Veach, operator in Abilene, helps serve 200 rural customers each day. Her home is a 240-acre farm. Because of her background, she understands farm problems. "That's why I always try to be extra helpful on rural calls," she says.

BEST TELEPHONE CROP IN TEN YEARS!

More telephones were added in rural areas during 1956 than any year in the past decade. Across the land, thousands of telephone men and women worked together to bring you more and better service.

These people are typical of those in the telephone office in your town . . . and those out on the lines and in our laboratories. They work toward a common goal—more and better rural service. During the past year this Bell System team brought telephone service to about 350,000 customers and improved service for hundreds and thousands more. Truly they are working together to bring people together.

We'll continue that job in the years to come.

Working together to bring people together

BELL TELEPHONE SYSTEM

IN ARIZONA, Cecil J. Smith, right, manager at Willcox, spends a good deal of time out in the fields talking to farmers and cattlemen. From such conversations came telephone service to farmers like J. J. McAllister, left, who lives 14 miles from town.

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The farmer's WASHINGTON®

- **New goal: Full parity in the market place by 1960**
- **No major changes in present farm programs coming**
- **Dairy leaders look for way to cut milk production**

"Get-tough" policy. Be prepared for the United States Department of Agriculture's new "get tough" policy on federal farm programs. You'll notice it first and most in lower support levels and tighter soil bank regulations.

As long as Secretary Benson is running things, which may be for 4 more years, the policy is to operate programs according to what officials think is best for agriculture—whether farmers agree or not. *The new goal is 100 percent of parity in the market place before 1960.*

Lower supports. To arrive at that goal, all farm programs will be re-aligned to get rid of surpluses and to force production into line with market demand as fast as possible.

The idea is that if surpluses are removed and production geared to demand, market prices will automatically go to 100 percent of parity or higher and *the need for price supports will be all but erased.* As surplus disposal is speeded, screws on price supports and production controls will be turned tighter.

Officials are making no bones about their intention of "riding herd" on the surplus-producing farmers. Back-of-the-scenes U.S.D.A. talk is that farmers will have to "grin and bear it" for at least 2 years more. Then, with good breaks, the toughest part of the job may be finished and a gradual easing of controls may be possible, according to the present plan.

What Benson wants. If you're looking for major changes in present farm programs—forget it. Secretary Benson plans none, and Congress is in no position to make any.

Aside from seeking more freedom in getting rid of government-held surpluses, Secretary Benson says: "I don't anticipate we are going to need any basic or fundamental legislation in 1957."

While the election provided high support advocates with more votes in Congress than last time, President Eisenhower is not likely to approve legislation frowned on by Benson. Also, the Democrats—who owe a large part of congressional control to rural voters—don't have the strength to override a veto.

Thus Benson will ask for—and probably get—much broader power to get rid of surpluses, *including dumping authority,* plus permission to sell more commodities for foreign money. In the past, he has opposed both.

He also wants authority to sell low quality U.S.D.A.-held wheat for feed at cut-rate prices, and permission to let small farmers overplant wheat allotments without penalty if they use all the wheat on their own farms.

Democratic strategy. Faced with the veto, Democratic strategy is to sweat out the high support issue. The plan is to have the House vote 90 percent supports in 1957 and the Senate follow up in 1958. The idea is to make political hay of high supports for the 1958 off-year congressional elections. In short, *nobody here thinks 90 percent supports have a chance for 4 more years*—before 1960—under the present conditions.

Dairy controls? Dairy leaders are genuinely worried about milk production and are looking for new ways of putting a damper on production.

They fear that unless farmers can agree on one program, the surplus situation may get so severe *that Congress will clamp on direct production controls.*

So far, no program designed to gear milk output with demand has been thought acceptable to all elements and regions of the dairy industry.

Meanwhile, dairy production is hitting new record highs almost monthly. Milk output this year is in the neighborhood of 128 billion pounds, with 130 billion and more around the corner. Economists say our production will continue to outstrip consumption despite our rapidly increasing population.

Timetable for action set by some prominent dairy leaders calls for development of a new program in 1957 aimed at *a new dairy law from Congress in 1958.*

New corn program? Now that the 1957 corn support program has been selected by commercial area farmers, there is almost no question that an entirely new corn program will have to be found. That probably would have been the case no matter which program was approved December 11. Here's why:

With the choice of support levels so low, neither alternative was attractive. Few farmers could afford to cut to their share of a tiny 37.3-million-acre allotment. And the soil bank deal automatically killed the "basic" status of corn.

So the U.S.D.A. and Congress could be expected to work feverishly for a replacement program this year.

IF YOU'VE BEEN TAKING ASPIRIN FOR COLDS REMEMBER...

1. BUFFERIN acts twice as fast as aspirin

to relieve cold miseries and headaches

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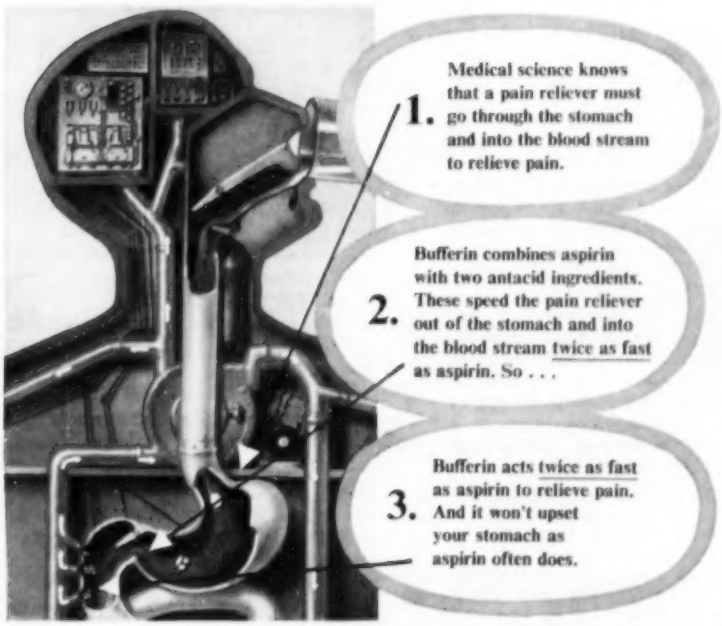
as aspirin often does



Medical research shows that most cold sufferers stop taking pain relievers before getting completely rid of a cold.

Why? Many people find that ordinary pain relievers, taken over prolonged periods of time, cause upset stomach.

That's why you need Bufferin. It acts twice as fast as aspirin, yet is so gentle and safe you can take it over prolonged periods without fear of upset stomach.

IF YOU SUFFER FROM PAIN OF ARTHRITIS OR RHEUMATISM, ASK YOUR PHYSICIAN ABOUT BUFFERIN®

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haul forage or graze?... try the RED BRAND formula

In making up his mind on this question, the wise farmer considers the point of view that puts greatest value on his time and labor.

He takes a hard look at tough daily chores that can affect the most precious of human resources—his health. At the same time, he likes more time to plan and manage his enterprise—and enjoy life!

Grazing is the most economical and labor-saving method of making meat or milk. It is also the most efficient way to distribute manure over the land.

For pasture, wisely rotated in small units for periods of several days to a week—convenient, easy-to-handle RED BRAND® Fence and Barbed Wire best adapt to temporary as well as permanent fence . . . are easiest to put up or move. RED BRAND helps cut cost of production . . . cut time . . . cut down hard work.

And RED BRAND costs less because it lasts longer. Only RED BRAND is Galvannealed® against rust—it has a heavy zinc coat permanently imbedded in the wire so that it won't come off.

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Plan a better grazing program for next year. Ask your RED BRAND dealer to help you, using the Red Brand formula. Request literature on Practical Land Use, pasture feeding and fence building.

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Tips on early weaning

Before starting a system of early weaning, make a survey of your swine operations, advises A. H. Jensen, University of Illinois. If you have good housing and excellent rations and are confident of your management, early weaning could be very profitable. Work gradually toward younger weaning ages. Wean several litters at different ages and study the results.

Weight, vigor, and condition are more important than age as a criteria for early weaning of pigs, says Jensen. In general, don't wean pigs before they weigh 10 pounds. To be comfortable, 1- and 2-week-old pigs need a temperature of 75 to 80 degrees. Removing the sow removes a source of food and warmth for pigs.

Pigs should be divided into groups of similar weight, keeping numbers in groups small the first 2 weeks. Give pigs ample clean, fresh water and a palatable, nutritious ration, high in energy and low in fiber. Rigid sanitation is a must.

Here are the main advantages of early weaning as outlined by Jensen. It can:

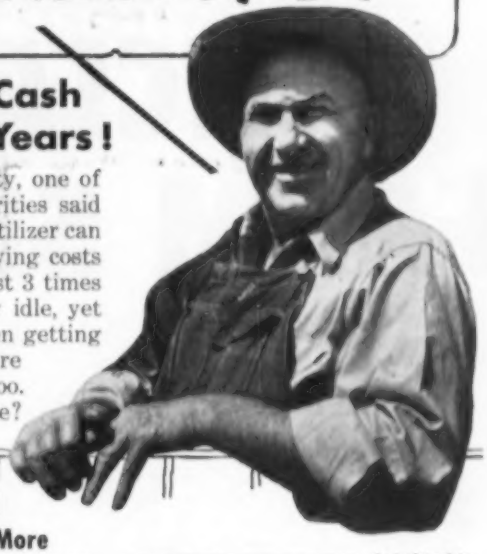
- Save labor. It greatly reduces volume of feed, bedding, and manure handling necessary for sows nursing litters.
- Lower space needs. With sows removed early, more pigs can be properly housed and cared for in a smaller area.
- Save feed by eliminating the 12 to 18 pounds per day required by a heavy milking sow.
- Capitalize on baby pigs' feed efficiency. A pig between 1 and 8 weeks of age will put on 1 pound of gain per 1¾ to 2 pounds of feed.
- Permit rebreeding or selling of sows sooner after farrowing.
- Give more uniform response and fewer runts, since each pig has equal chance to get to well-formulated ration.
- Reduce baby pig loss, by eliminating crushing and crippling by the sow that might occur if pigs were not weaned until later.
- Decrease the possibility that disease will be transmitted from sow to pig.
- Save loss in weight of sow.
- Mean average heavier weights at 8 weeks of age.
- Encourage multiple farrowing.

The main disadvantage of early weaning is that the average producer does not realize the skill and careful management essential for success. The younger and smaller the pig at weaning, the greater the attention that must be paid to details of sanitation, cleanliness of equipment, temperature control, avoidance of drafts, and prevention of scours and diseases.

With early weaning, labor, equipment, and overhead costs may increase. Warm, clean, disease-free quarters are very important. Many farms are not adapted to weaning pigs at very early ages.

Let me tell you

HOW TO MAKE MORE MONEY



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GET MORE THAN 100% OF PARITY

AT a recent meeting in Atlantic City, one of the country's leading soil authorities said testing the soil and using the right fertilizer can so greatly increase yield and cut growing costs that your profit per acre will be almost 3 times as much! You can let some acres lay idle, yet have a bigger income than you've been getting from your entire farm! His figures were on corn, it's the same with other crops too. Can you afford to lose this bigger income?

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EASY AS READING A THERMOMETER

Even your first tests will be accurate and reliable! Use any time, anywhere. Takes only 10 minutes, costs less than 10c a test. No samples to mail, no waiting for reports—you get your answers right away.

No Knowledge of Chemistry Needed

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Every $1 You Spend for Fertilizer Will Pay You Back Up to $10.00 or More

A farmer in Ohio boosted corn production 300%, oats 500%, wheat 100%, hay 300% with his Sudbury Soil Test Kit. It's so easy! Cut out the "guessing" and get the greatest good from whatever fertilizer tonnage and manure you decide to use. The wrong kinds can do more harm than good! **Get up to 200 Bu. Corn per acre, 100 Bu. Wheat, 5 Tons Hay, 30 Tons Tomatoes, 750 Bu. Potatoes, 300% Increase in Milk.**

Save Up to $15.00 an Acre on Fertilizer Costs

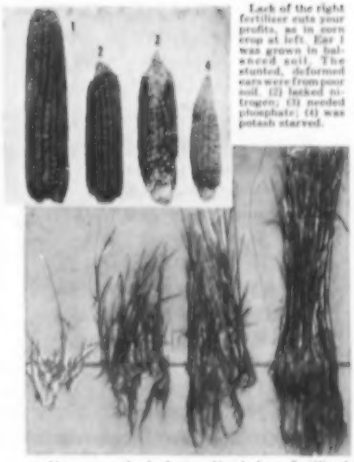
—YET GET BIGGER YIELDS AND BUILD UP YOUR SOIL AT SAME TIME

Guessing wastes time and costs money. An Illinois farmer "guessed" he had to spend $500 for lime. Soil Tests showed he didn't need it; the $500 paid for phosphate needed on 65 acres. Buying fertilizer without testing soil is like a sick man buying expensive medicine without a doctor's prescription to tell what would cure him.

You'll not only get bigger crops and make more money—you'll build up your soil instead of running down its vitality. You can even fight drought—maintain yield four times as much as without treatment. You'll increase the value of your farm!

Your Soil Test Kit helps build up highest fertility at lowest cost on cover crops or soil bank acres. Growing population and loss of 1,000,000 acres a year to suburbs will soon require top yield from every acre you own.

The soil is your most valuable asset—yet probably the one you know least about! Even if intensely cultivated, proper fertilizing based on soil tests improves soil for the future.



Lack of the right fertilizer cuts your profits, as in corn crop at left. Ear 1 was grown in balanced soil. The stunted, deformed ears were from poor soil. (2) lacked nitrogen; (3) needed phosphate; (4) was potash starved.

No Fertilizer | Lacked Phosphate | Needed Potash | Fertilized Correctly

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A. F. B. of Iowa increased bean yield 50 per cent by correcting phosphate and potash deficiencies his Sudbury Soil Test Kit revealed.

A. D. of Indiana nearly doubled corn yields. Also gets 30 per cent more wheat and soy beans to acre.

W. L. D., Penna., saved $400 on fertilizer. "The Kit has paid for itself over and over again."

G. H. of Ohio "Have made many tests; like its simplicity. Worth 1000 times its cost on my 325 acres."

S. H., Mich., "guessed" a potato field needed nitrogen. Tests showed it didn't, but lacked potash. Thanks to Sudbury, he doubled his yield!

R. S. G., Ind., has cut fertilizer costs by using only what his Sudbury Soil Test Kit showed was needed.

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☐ Enclosed is check or money order for $29.95. It is understood you will send prepaid, saving me $1.31 to $3.55 in delivery charges. **I am also to receive FREE the valuable book on farm management, "Our Land and Its Care."**

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about a man who learned a valuable lesson in farming

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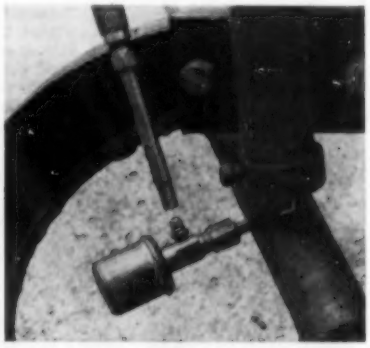


Bearing lubricator. Taking place of grease fittings, this unit has spring-loaded reservoir to stretch time between greasings. Position of cap on stem tells immediately whether unit is empty.—*Clapsaddle Sales and Service, Whitten, Iowa.*

Smoothing tool. Cutting component, made of many cutting blades, fits handle for use as a hand plane or like a rasp. Both can be used on materials such as wood, leather, plastics, copper, aluminum, lead. Blade does not clog, is replaceable.—*Stanley Tools, New Britain, Conn.*

How Much Competition in the Meat Packing Business?

by BERT HORAN
Livestock Producer
MERCER COUNTY, ILLINOIS

Ask some folks about competition among meat packers and you may get this answer: "We don't think there's very much."

That's a serious complaint—because it's mighty important to producers to have lots of competition in livestock buying and meat selling.

Does the complaint really hold water? My own experience, observations and common sense—plus all the facts I can get from reliable sources—say "No".

For one thing, there's no shortage of people willing to bid on my livestock—if I give them the chance. There are 8 or 9 places to sell right in my own county. Or I can take my choice of half a dozen terminal markets.

In 10 years as a director, and now as vice-president, of the Illinois Livestock Marketing Association, I've had a hand in cooperative marketing from coast to coast. That experience convinces me that it's impossible for packers to "get together"—even if they want to. There are just too many of them.

U. S. Department of Agriculture figures show that there are more than 3,000 commercial slaughterers—outfits handling over 300,000 pounds of livestock a year. And there's probably several thousand smaller "butchers." That's more competition than you'll find in most other businesses.

But aren't most of those thousands of processors too small to count? Well, Department of Commerce figures show that the eight biggest nationwide packers do only about half (53.6%) of the business. The smaller fellows who do the other half can't be called "a drop in the bucket."

Think of your own local locker or small packing plant. Maybe it doesn't buy much livestock or sell much meat. But in its own neighborhood it can be tough competition for the biggest packer in the land.

Small packers buy livestock, too—you're never forced to deal with just one buyer. At the other end of the line, the salesman for a nationwide packer makes no hay with storekeepers just because his company is big. If they don't like his price, retailers can shop around among a dozen other outfits, large and small.

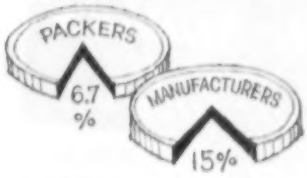
It's easy to see why so many people are in the packing business. It's a simple thing to get into. There are no secrets about dressing livestock and few patents covering it. With just a little equipment and some elbow grease, you're in business.

Besides, you can't have a monopoly on a perishable product. Any packer, whatever his size, has to adjust prices so meat moves quickly. Otherwise, he'll lose his customers to somebody else—and risk a big spoilage loss.

Producers sometimes feel that they get less for livestock than it's worth—because there isn't enough buying competition. But the real trouble is that we don't always give competition a chance to work.

Who's to blame if we don't use all the market dope put out for our benefit? Or if we don't shop around to find the best spot to sell? Or if we don't use expert selling help—marketing co-ops, commission men, auction markets, etc.?

Here's something I don't understand: If the packing business really is a monopoly, why are its profits lower than those of most other industries? In 1955, according to the First



National City Bank of New York, the 14 biggest packers netted 6.7% on net assets. But leading manufacturers of all kinds averaged a net return of 15 per cent.

This much is sure: Packers buy all the livestock we raise—but not always at the price we think we ought to get. But we can't blame that on packers, either. They don't decide how much livestock will be produced. Or how much consumers will pay for meat.

No matter how competitive they are, packers can't repeal the law of supply and demand.

* * * * *

Mr. Horan takes a longer look at packer competition in a booklet called, "Competition in the Meat Packing Business." For your free copy, write to Agricultural Research Department, Swift & Company, Chicago 9, Illinois.

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Friend to friend

- **A clearer view of farm problems**
- **Let silage cut your feed costs, too**
- **House plants make a cheerful room**

● After years of discussing the problems of farmers, the public seems to be getting a **clearer view.** Or am I being too optimistic?

First, there is general agreement too many people are trying to make a living off the land. Total farm income isn't large enough to give each family decent security.

Second, every means available through our **educational** system and the federal government must be used to help these people into better circumstances.

Third, reducing the number of farms by 1½ million isn't going to help reduce farm **surpluses** much. All of the land will be farmed by those who remain on the land. Possibly larger farm units within the family farm definition will be in stronger position to bring production and needs into line.

Fourth, considering skill, investment, and labor required, the farmer as a class may never make as much as businessmen using equivalent facilities. He will farm because he likes that **kind of life** better than working in an office and factory.

On my fourth point, I believe firmly that future farming *will* pay financially as well as other occupations with equal facilities. Our population is growing rapidly while our **soil resources,** measured in acres, can expand very little. Our skill in drawing the top yields from those acres is gaining at an astonishing rate. But with a steadily increasing level of food quality desired, plus an increasing population, we must have **better** farming methods.

Adjusting 1½ million farmers to better circumstances on or off the land will take a lot of time and patience. Great road building projects, forestry, and vastly expanded **industry** in the rural areas will be necessary. It's good the issues are growing clearer. There is no way, I can see, of giving everyone a **good living** who chooses to live in the open country and call himself a farmer.

● As I write with the picture at upper right before me, snowdrifts 7 feet high prevail in the area around Hershey, Nebraska, where the picture was taken last fall. On a trip through the Sandhills country with our livestock editor, Vernon Schneider, we called on the Frame family, noted for good farming, especially cattle feeding. I have never seen such a heavy silage crop of corn and sorghum. Later, I learned it yielded 30 tons to the acre. The land is irrigated.

I view Perry Frame's 30-ton crop of silage

Now, with great drifts of snow covering the countryside, this silage in trenches is cutting feed costs right and left. And if there should be an unused siloful next spring, the silage will keep indefinitely. I think we are just beginning to make the use of silage we should. And raise it cheaply and abundantly.

● Does your house have a good supply of thrifty **house plants** this fall? How much I enjoyed building birds' nests in my mother's geraniums! It must have been a hard experience for her posies, but I learned to love flowers, a passion which is a real comfort in advanced years.

It always seemed like a few blooming **plants** in a sunny window and a fat cat or two about the house were necessary to make it a **home.** I hope your modern home and furniture leave plenty of room for house plants—they are a bit of summer that stay, like a hardy bird, through the cold winter months.

Kirk Fox

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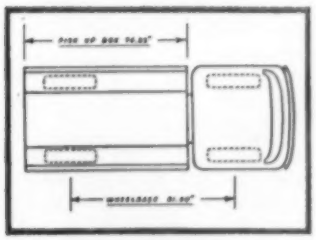
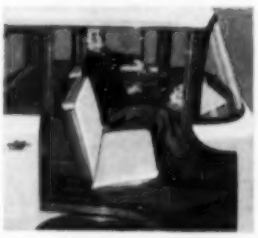


New Forward Control Design places the engine behind you, puts every inch to work, gives you up to 200% greater visibility.



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SUCCESSFUL FARMING REPORT

So you're "retiring" ... what now?

By Wayne E. Swegle

This is a special report for farmers who are 65 or over and have completed their eligibility for social security benefits. It gives help in making the important decisions ahead

If you're one of the thousands of farmers who will become eligible for social security retirement benefits as of January 1, 1957, you have some planning to do. You may not be ready for the old rocking chair—what are your alternatives?

Should you continue farming, sell the farm, rent your farm and move to town, or rent your land but stay on the homestead and farm part time? What about earnings—how much money will it take for you and your wife to live? Here are some guides to help you plan.

Filing for retirement benefits. If you're retiring as of January 1, you're interested in taking care of the details with the Social Security Administration, of course.

Wait until you have paid your 1956 income tax. Then take your tax return and the cancelled check, or the receipted stamp on your tax return, to the district office of the Social Security Administration. (Even though you have to wait until you've paid your income tax, you will get benefits as of January 1, when your checks start coming.)

If you don't know where the social security district office is located, ask your local postmaster. If you can't go to the district office, ask the postmaster when a social security field representative will be in your area so you can see him.

If your wife is 62 years of age or over, take her with you. And take proof of both your dates of birth.

The social security representative will tell you what to do.

How much will you get? The size of your monthly check will depend on how much income you've paid social security tax on. It works out like this:

If your average yearly earnings were	You will get, per month	You and your wife will get (if she's 65)
$ 600	$ 30.00	$ 45.00
1,200	55.00	82.50
1,800	68.50	102.80
2,400	78.50	117.80
3,000	88.50	132.80
3,600	98.50	147.80
4,200	108.50	162.80

If your wife is 62 or over, she is eligible for benefit payments as your dependent. But if she starts drawing before she's 65, she'll get smaller benefits—because she'll be getting checks for more years. The social security representative will show you how much the monthly payment will be now, and how much if she waits until she's 65, and you can decide then.

What about your farm? When deciding what to do with your farm, bear these facts in mind:

- If you cash rent all or part of your farm —or rent it on the shares and you do not participate materially in the management or production on the farm—this rental income doesn't affect your social security checks. It is considered investment income, not earned income. (Interest, pensions, and insurance also will not cut your social security benefits.)
- If you continue to farm, or farm on a reduced scale, or work off the farm, you can earn up to $1,200 a year without affecting your social security checks.
- For each $80 over $1,200 you earn, you lose one monthly benefit check.

Here's how it works out:

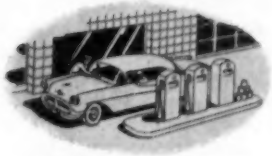
Annual earnings	Number of monthly benefits payable
$1,200 or less	12
1,200.01–$1,280	11
1,280.01– 1,360	10
1,360.01– 1,440	9
1,440.01– 1,520	8
1,520.01– 1,600	7
1,600.01– 1,680	6
1,680.01– 1,760	5
1,760.01– 1,840	4
1,840.01– 1,920	3
1,920.01– 2,000	2
2,000.01– 2,080	1
2,080.01 or more	0

However, you will not lose a benefit for any month in which you neither earn more than $80 in wages, nor render substantial services in self-employment.

If you are not eligible to receive a check for a certain month, no benefit check is payable to your dependent wife, either. If your dependent wife works,

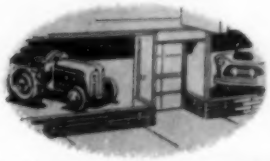
[*Turn to page 64*

at your elbow



SERVICE STATIONS

CAR DEALERS



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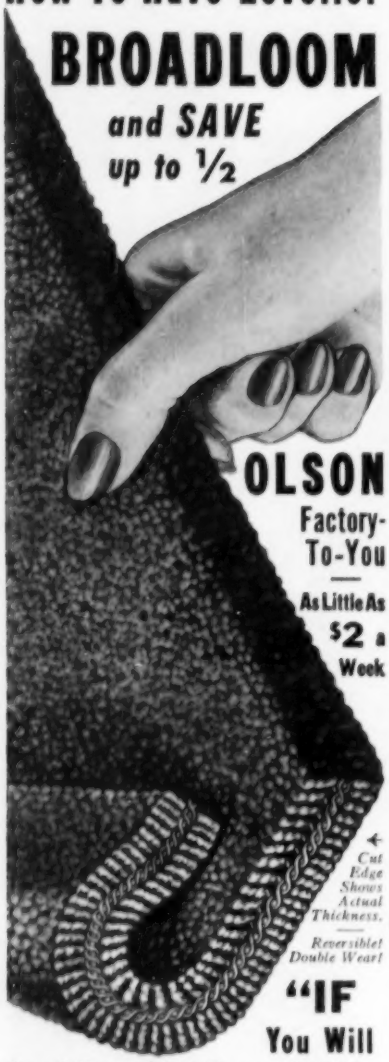

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Name signs of aluminum with name plate in 6 colors. Letters shine at night—maximum 17 letters and 6 on number plate. $5.95 ppd.—*Spear Engineering Co., 407 Spear Bldg., Colorado Springs, Colo.*

Toaster with oven. Vertical toaster makes regular toast; oven toasts buttered toast, English muffins, and so forth. At appliance stores, $29.95.—*General Electric Co., Bridgeport, Conn.*

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Photographs: Stanley

Electric blanket with "built-in" foot warmer. Blanket temperature at foot of bed is several degrees warmer. At stores, price varies with size.—*The Philco Corp., Philadelphia 34, Pa.*

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Ask your Check-R-Mix Dealer to show you how you, yourself, can dial your own Purina Research-Approved rations from your grain.

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Your neighbors say

Wayne Moser, Route 2, Urbana, Illinois: With the possibility of supply and demand becoming more important in the price picture, I'm planning my marketing with more care. I anticipate more world markets for our grain. With conservation measures helping to limit supply, price ought to be good. I will weigh carefully compliance or noncompliance with government program before planting season.

Dale Cochran, Vincent, Iowa: We milk 8 cows today. With Eisenhower back in, we will have to either increase this to 25 or more or get out completely. The existing price does not allow enough profit per unit to milk a small herd. My folks and I farm 240 acres. We will have to rent more land to realize enough profit.

R. S. Webber, LaPorte, Colorado: With Eisenhower and his administration back in Washington for another 4 years, we will have an opportunity to find out exactly how well their farm program is going to work out. I have always felt that his administration did not have time enough in the first 4 years to prove their points. I believe that the president and Benson are sincere and that their program is the best one for us on a long-term basis.

Photographs: Mercer; Messerly; Everly; Watts

Jack and Tom Caine, Dane County, Wisconsin: We look for more inefficiency in solving the price support problems of agriculture. Benson doesn't have a full grasp of the problem, as he talked in Wisconsin about butter surpluses, when Wisconsin's main problems are with whole milk, cheese, powdered-milk products.

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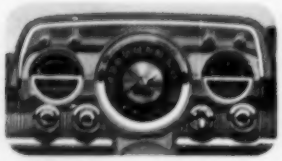
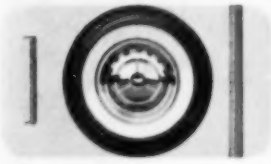


3. COMMAND POST CONTROL PANEL

4. LOOKS LONGER . . . AND IT IS!

5. HEADLIGHT-HOOD AIR INTAKES



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Chevrolet's great design team has come up with a whole galaxy of sparkling new advances. You can *see* that a block away, in Chevy's proud new bumper-and-grille front, in the bold flare of its rear fenders, the clean-lined simplicity of its integrated taillight assembly. You can *feel* the difference, instantly, the moment you nudge the accelerator on any of Chevy's superb new engines. Matter of fact, there's so much that's new and wonderful about this new Chevy you can spend fascinating hours just getting acquainted with 1957's most distinctive car. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

FARM OUTLOOK FOR 1957

What's ahead for farm prices

We worked with the Department of Agricultural Economics at Purdue University to bring you this forecast of farm prices for 1957. This report is aimed at helping guide your production plans for the coming year

By Wayne E. Swegle

General business outlook

The general business outlook affects consumers who buy your products—so that is a logical starting point. And the general business picture can be described in two words—moderate expansion. Sharp expansion will be prevented by federal monetary restrictions, which may bring some decline in business before the end of 1957 if maintained as at present. Implications for agriculture:

- Consumer incomes after taxes will continue to rise, so your customers will have more money to spend for your products.
- Cost of things you buy will continue to increase.

General farm outlook

Demand for farm products is expected to continue strong and prices you receive to strengthen moderately. However, with prices you pay for products rising too, the parity ratio for 1957 will average near 83—about the same as for the first 8 months of 1956.

Add government payments, which will be larger, and it appears that *net farm income will be 5 to 10 percent greater than in 1956.*

Now on to the outlook for specific farm products.

Hogs. Prices during the next year are expected to average $2 to $3 above the past year. A further moderate decline in 1957 spring farrowings appears likely.

For the next 3 months hog prices are expected to average moderately higher than the last 2 months, continuing substantially above levels of a year ago.

If the late fall farrowings were, and early spring farrowings are, reduced as expected, hog prices during May to August, 1957, will be higher—perhaps $1 to $3 above the $16.70 average of barrows and gilts at Chicago in the same period of 1956.

The feeding ratio ahead looks more favorable than for the past year—and is expected to average at about the long-time ratio of 12.3 to 1. During the past year it was about 10.3 to 1.

Beef cattle. Reduced feeding operations because of poor crop conditions in Iowa and Nebraska, the two heaviest feeding states, provide a basis for expecting prices to average higher in 1957 *for the better grades of fed cattle* than during the past year. However, they likely will not reach the high peaks of August and September, 1956. Iowa and Nebraska farmers—representing about half the normal feeding capacity of the Cornbelt—won't be able to feed either a normal number of cattle or to feed to the usual high weight and finish.

Otherwise, little change is expected in cattle prices. The dominant factor affecting beef prices continues to be record high levels of production.

The strength shown in the fed cattle market during the third quarter of 1956 is not likely to be repeated in the same season of 1957 because many farmers will head cattle for that market in '57. It could well be that the peak in prices may come somewhat earlier.

Increased receipts of grain-fed cattle—including large numbers of short-feds of Medium to Good grades—due to go to market from now into spring are expected to bring a decline in prices. But with less competition from pork, prices shouldn't go as low as last year, especially for the top grades. Expect wider price spreads between higher and lower grades than during the last year.

Summer movement of stockers and feeders from drouth areas in the range states to good pasture areas in the Cornbelt was very heavy. And a record number of feeder cattle moved into feedlots in the early fall months. These big movements of cattle into feedlots were caused by the increased calf crop, a larger available number of older stock steers, and poor feed conditions in the range states which forced ranchers to sell.

Dairy. Farm prices for dairy products in the year ahead will be the same or slightly higher—but will be strongly influenced by support levels. Support price for manufactured milk will be [*Turn to page 65*

COVER STORY

"We're raising hogs with today's know-how"

so say Bill and Erland Rothenberger. Producing a better meat product at a lower cost is their No. 1 aim. Pictures and article tell of changes they have made—their plans for the future

By Vernon Schneider

One thing is for sure on the Bill and Erland Rothenberger farm near Frankfort, Indiana. You'll never find them raising hogs today like they did the year before. They firmly believe that improvements are made in swine production just as in any other business.

Their goal is to produce an optimum amount of pork in a family-type operation. *They are specializing in the farm enterprise they know the most about—hogs.*

Typical of their acceptance of the latest know-how in raising hogs is their new pole-type farrowing and finishing barn (shown below). It is the first of several buildings which will eventually enable them to move from a pasture-type hog operation to dry lot. In 1956, the Rothenberger Brothers were raising 1,282 head of hogs, compared to 631 in 1950.

Here, in the estimation of the Rothenbergers, are the most significant developments in [*Turn to page 90*

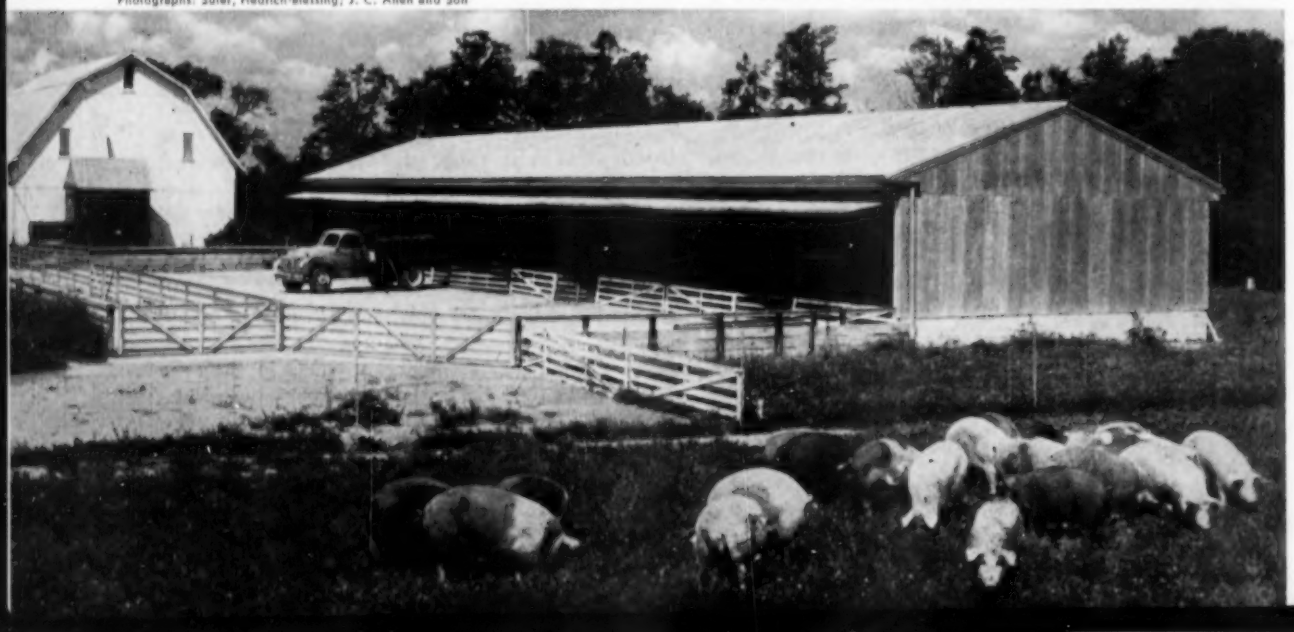
INTENSIVE DISEASE CONTROL

Pigs are given high-level dose of antibiotic-vitamin mix. Antibiotics, serums, and drugs combat swine diseases which occur with increased hog population.

FLEXIBLE HOUSING

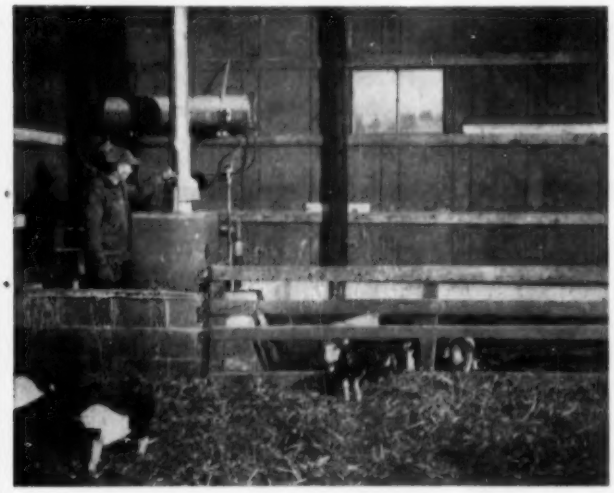
The Rothenbergers' modern farrowing and finishing house is shown in pictures above and below. Truss roof allows completely open span. Gates, panels, feeders are portable—are removed during finishing period. Six sows and pigs are placed in each pen. Replacement gilts shown below.

Photographs: Suter, Hedrich-Blessing, J. C. Allen and Son



Open construction makes cleaning building easy after each batch of pigs. Other disease control measures include spraying sows 4 times a year for lice and mange. Pigs are sprayed after weaning; wormed at 10 weeks; vaccinated with modified virus and serum at 6 weeks.

All buildings, equipment are pressure-sprayed with lye water—left idle at least 3 weeks to help break disease cycle. Boars brought onto farm are isolated for 2 to 3 months after testing for brucellosis, leptospirosis.



PROPER HEATING, VENTILATION

Five-foot radiant-heated strip at back of building provides protection for pigs during winter. Four lines of ¾-inch copper tubing are laid in concrete. Heating unit uses LP gas. Natural ventilation makes use of windows and slots alongside back of building—large doors in front.

AUTOMATIC FEEDING

Feed is delivered to 65-bushel self-feeder in self-unloading wagon. Pigs from 2 pens can eat from each feeder. Picture below shows completely automatic feed grinding and mixing setup. Pipes from bins above bring ingredients to grinder. Ground feed is blown into overhead bin—then loaded into wagon.

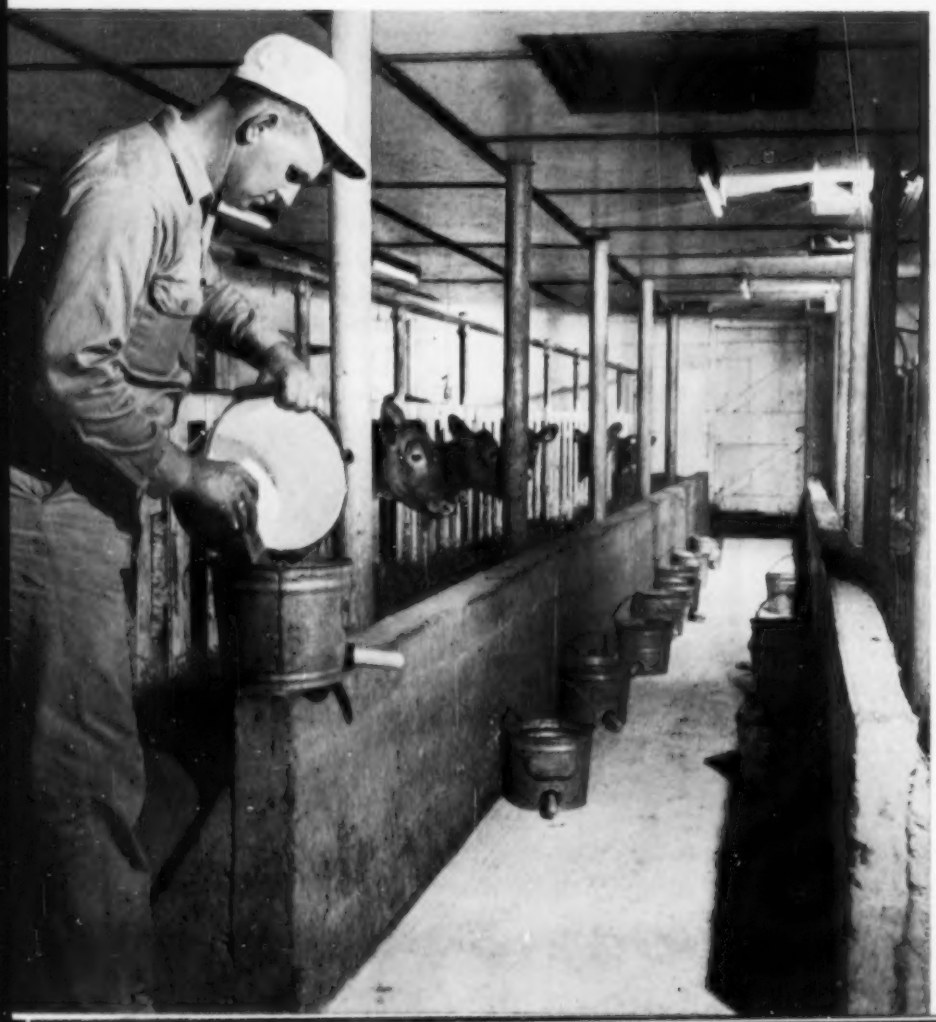
Adequate housing is a management must if you are trying to raise future replacements for your herd. We contacted a number of dairymen for practical, inexpensive answers to this problem. Here are some of their . . .

Good calf-housing ideas

By James R. Borcherding

Here are 10 important management tips

1. Use individual pens the first 2 months (or while calves receive milk or milk replacer).
2. Allow a minimum of 24 square feet of floor space per calf.
3. Reduce drafts with the use of solid partitions.
4. A uniform temperature within the 50-75 degree range is best for young calves.
5. When moved to group pens, 10 calves per pen should be the maximum, with age differences of not over 2 months.



Photograph above: individual pen in converted dairy barn, Pleasant Valley farm. Plywood dividers are used between pens, hinged solid panels at rear and slatted area at front. Drinking cups were retained, with 1 to every 2 pens. Heat lamps are used for smallest calves in cold weather

A stanchion barn was converted into a modern, efficient, easy-to-keep-clean unit for dairy calves on the Pleasant Valley dairy farm near Tremont, Illinois. Manager George Livengood made the change when herd was expanded from 40 to 100 cows and a loose-housing system was begun.

There are 16 individual pens in photograph at left, 8 on each side of the feeding alley with each using one former stanchion space. Old manger area is used for hay.

Gates of individual pens on George and Art Bailey farm, Willows, California, include stanchion and box-manger. The Baileys say feeding on outside of pen is handy, there's less waste, box cleans easily

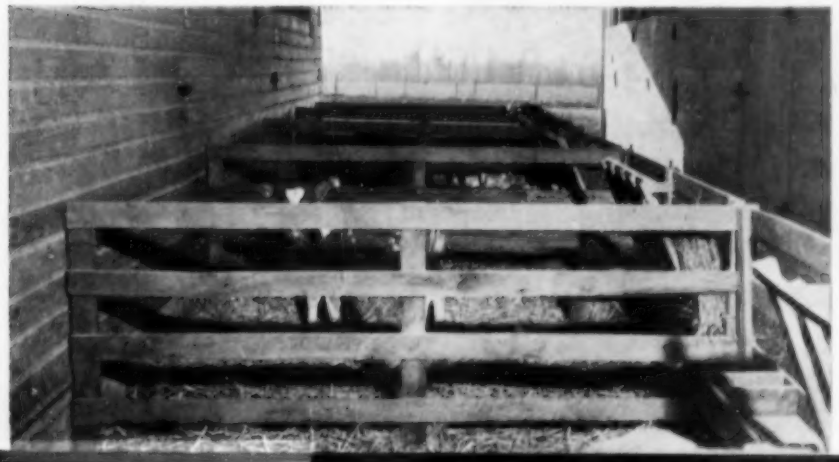
Calf pens at the Foremost Dairy Farm, University of Missouri College of Agriculture, are built of plywood siding. The calves are housed in individual pens inside the calf barn, with matching pens on the outside for use in good weather. A concrete floor and gutter along the front of pens allow for easier cleaning and improved sanitation

6. Allow 30 or more square feet per calf in group pens.
7. Pens should be clean, dry, well ventilated but draft-free, and well lighted.
8. Provide fresh water with well-filled pails or drinking cups.
9. Good sizes for feed boxes are 8"x10"x6" for individual pens; 10"x6" deep and 2' of space per calf in group pens. Less crowding in group pens with two troughs.
10. Locate top of feed boxes and waterers 20" from floor.

In this 4-unit system on the L. C. Miller farm, Sebastopol, California, individual pens on far side for small calves are 4'x6', have aisle in front. Older calves are grouped by age in 3 community pens. Each hayrack serves two pens. Stanchions are at right, the outside runs to left

Individual calf pens on Elmer Adams farm, Jackson County, Missouri, are equipped with feeders made from discarded drinking cups. Mounted on a block and attached to the wall, they are used for feeding grain and pellets. To prevent supply of fresh water from tipping, bucket holders have been built in the corner of each pen. Plywood panels between pens help to provide draft-free quarters. Mangers, built in the corners of pens, are kept filled with high-quality hay

Tony Arigoni, Bennett Valley, California, has built holders for 2 buckets on each individual pen. Those on stationary part of pen are for water supply, those on gates are for feeding milk. Buckets can be removed easily and washed



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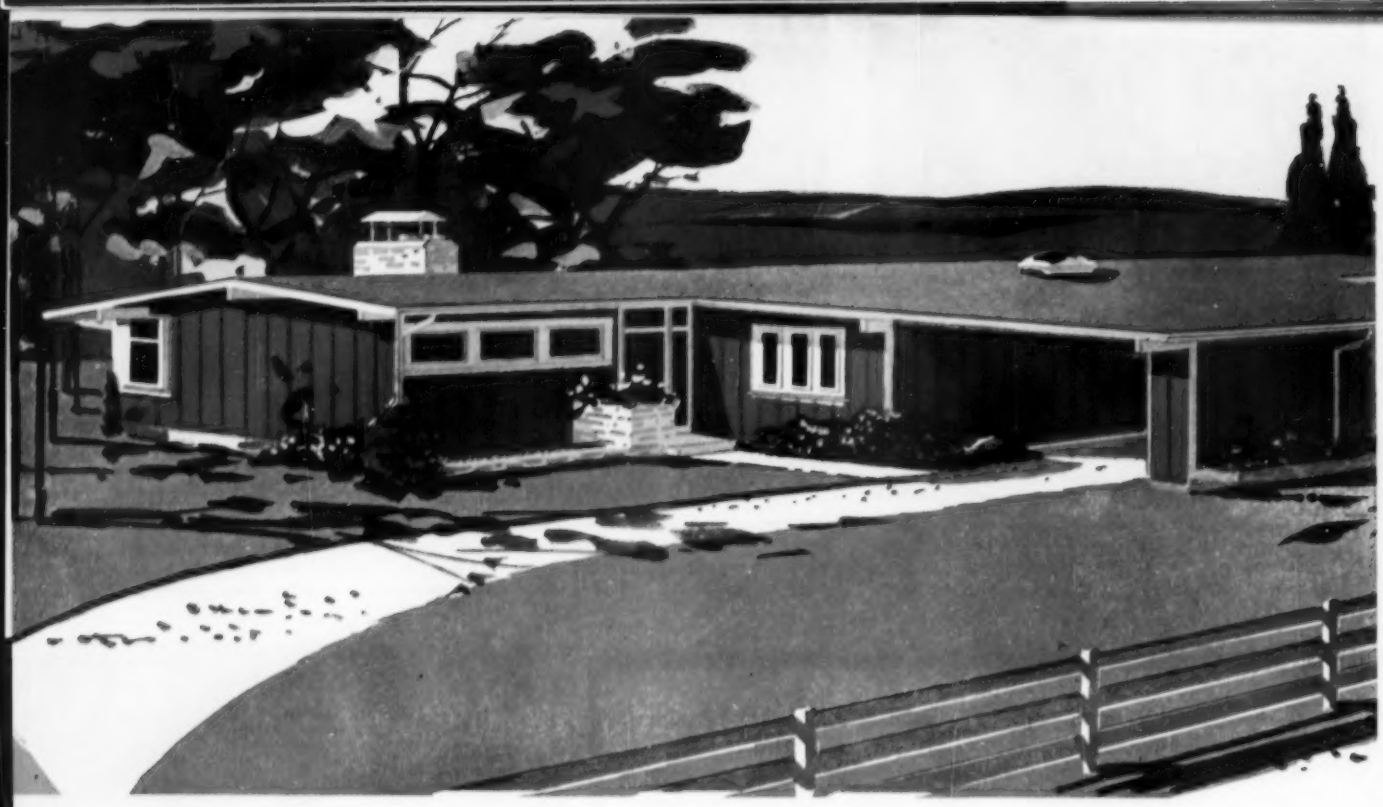
Temporary individual pens are used by Oren Bloomer, Christian County, Missouri, dairyman, during spring months before heifers are moved to pasture. There's adequate hay and grain feeding space in each pen. Pens can be easily removed from the drive-through section of the hay and grain storage barn before harvest time



Open planning—key to a better farm home

By S. S. DeForest and Polly Meads

A house with versatility in how it's used yet designed especially for use on farms! That's what the editors of *Successful Farming* have for you in this new farmhouse plan.

The open-planning idea—which lets you use all the green area in the drawing as one large room or divide it easily into work, study, conversation, or recreation groups—is the easy-to-use, versatile area of the house.

Regardless of how you use this "open" area and the fun-packed patio just off the family room, the bedrooms and wash-up area are accessible from the rear door, enabling workers to use this area of the house without going through the other areas. The *central hall* making this possible is one of the important *Big Six* in farm homes. New plan S2701 conforms to the rest of the *Successful Farming* Big Six, too. They are: A front door on the drive, a farm business center (this house provides one in a bedroom or at foot of basement stairs), a wash-up area near rear door, workroom space, and view of farm buildings and drive.

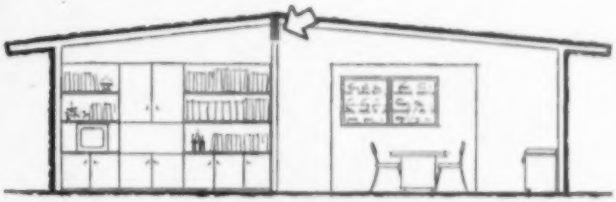
Open planning gives decorating freedom

One of the joys of decorating an open-plan home is that you have lots of room to work with when arranging furniture because you're not hindered by jutting walls or room supports.

This section of the open area, shown in green on the floor plan, is set aside as the quiet area of the home.

Open-sided fireplace, which serves as a partial room divider, can be enjoyed from any angle. The seating units form a grouping that is out of the way of traffic, so people may go in and out of the front door without disturbing conversation taking place in this section.

You can order this new Successful Farming house plan and list of materials. Ask for Plan No. S2701 from Successful Farming, Des Moines 3, Iowa. Cost is $2.50.



Key to open planning in this house is the heavy beam (arrow above, orange line, below) running lengthwise of the house. Low-pitched roof rafters are exposed and rest on beam and plate of conventionally constructed walls to give feeling of openness. Use of beam eliminates interior walls, normally used to divide areas into rooms. Green area shows this.

So, you can "let your imagination go" for ways to use this area. Patio lets you expand family room to the outside.

Exterior will fit almost any farm

The low-pitched roof and one-floor plan allow this plan to fit into the farmstead of most farms. There's a convenient place for guests to drive up to the front door and park. The kitchen, you note, faces the drive, yet allows the homemaker to view what's going on in the farm court. It's only a step or two to the rear door from the work areas.

The carport can be easily turned into a garage or left off, whichever you desire. There's storage along one wall.

The floor plan fits all of your family needs

This house plan is divided into two areas: the open one for all family activities from recreation, studying, and eating, to food preparation, and the quiet one for sleeping.

Laundry equipment is handy in the workroom and the freezer is in the kitchen. A bedroom makes a convenient place for sewing or for the farm office. Workers can wash up and hang work clothes near rear door. Partitions will convert family room to full-size dining room.

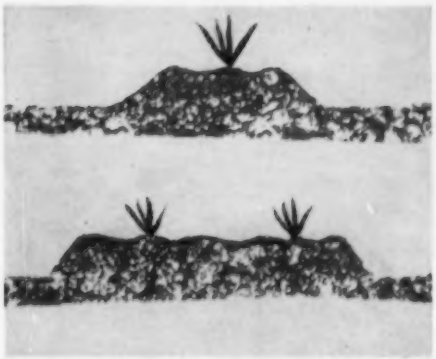
Architect: William A. Taylor. Drawings: Erik Simonsen Agency

Arrange furniture to define living areas

In a home built with an open plan your furnishings will define traffic lanes and centers of activity. This corner of the L-shaped open area is the relaxation center of the home. It provides a place to play, to eat, to read, to watch television, to study or write, and even a place for a guest to sleep.

The couch defines the traffic lane through to the sleeping area of the house and to the kitchen on the right. At the same time there is an open lane out to the patio on the left. Hard-surface flooring as opposed to the living room carpet creates another dividing line.

Planting 2 rows of corn as he plows a wide ridge has many good points. Compare with single-row ridge below



Ridges are made with plow by throwing furrow slice onto unplowed ground, making a rootbed of double topsoil thickness. Single-row ridges are made with a 2-way plow or modified moldboard plow. Wide ridges for 2 rows of corn are made with the 6-bottom plow at left and planted in a "once-over" operation

Can you do this in your cornfield? ⟶

Claude Ludwick sinks his hands into the loose rootbed late in August. He's got the soil tilth he started with. No compaction here. Corn roots have easy growing. Moisture and air enter readily. Good aeration increases the activity of soil bacteria, which in turn, are responsible for an increased release of soil minerals.

Soil moisture present at plowing time was excellent for corn germination; but weed seeds didn't make it. Field was never cultivated.

LEAST-COST CORN PRODUCTION

Two-row ridge planting

By T. L. Wainscott

Here's the latest idea in cutting corn planting costs and reducing soil compaction. Claude Ludwick of Hi-Valley Ranch, Kahoka, Missouri, has developed the newest way to hitch a corn planter behind a plow. His basic tool is a right-hand 3-bottom plow, and a left-hand 3-bottom plow joined on an I-beam, and pulled as one unit.

The two gangs are 26 inches apart in the center. They plow a strip 10 feet wide. The 6-bottoms, pulled 6 to 8 inches deep, throw soil up onto the unplowed ground, making a wide ridge of loose soil. A conventional 2-row planter is pulled right behind the plow. A metal plate smooths down the seedbed followed by furrow openers. The corn is planted 1½ inches deep with no further soil preparation.

How does he pull it? Ludwick uses a 3-bottom tractor, equipped with a weight transfer attachment. The tires are filled with fluid; and 1,000 pounds of wheel weights are piled on the nose. The counteraction of the two plows eliminates approximately ⅓ of the side draft normally experienced with a single 3-bottom plow.

Ludwick also added a "skyhook" and winch to shift additional weight onto the rear wheels to stop slippage on clay spots and wet spots. He just cranks on the winch until the wheels stop spinning. A pair of hydraulic cylinders lifts both plow and planter out of the ground.

The plow makes a dead furrow between every ridge; row spacing is 40-80-40 inches. Ludwick plants one kernel every 9 inches; but uses medium flats and gets an occasional 2 kernels. He figures he is getting a stand of 11,600 plants per acre, high enough for his present soil fertility level. In 1956, he planted 300 acres of corn with this method. He cultivated only 70 acres.

Yields in 1956 were very good considering rainfall was only 17 inches from January 1 to October 1. Best corn in four different fields, checked by County Agent Lloyd Redd of Clark County, averaged 119 bushels per acre.

Planted on the contour, 2-row ridge planting offers erosion control for sloping lands. Ridges can soak up large amounts of water. Note the footprints between the corn rows in foreground. Runoff goes into dead furrows, soaks in as it moves around the slope. Crop is picked with a 2-row picker. One trip with a "double out" disc cuts down the ridges

Every row is an outside row. Air and light get to one side of each row; every third row is missing. Here Ludwick drives between ridges to spray a few weeds in dead furrows. In 1955, he controlled grasshopper infestation by driving down every 10 rows and spraying straight up. Drifting insecticide gave him control for 12 cents per acre. Seeding an intercrop between ridges may be possible on good soils

Photographs: Wettach, Poass

Tempting main dishes for blustery weather

By Mary K. Farnen

CHILLY WINDS whipping around the corner of the farmyard stimulate appetites to crave warm and fragrant-smelling food. Your menfolk will finish the chores in record time when they know these hearty, stick-to-the-ribs main dishes are waiting inside the house.

Pictured here are some simple, main-dish suggestions that can be tucked in the oven along with other foods you plan to use now or later.

Turkish Rice With Broiled Chicken

(Makes 4 servings)

- 3 cups tomato juice
- 2 cups chicken or meat broth
- 2 whole cloves
- 1 bay leaf
- ¾ teaspoon salt
- 1 cup uncooked rice
- 3 tablespoons butter
- 2 small broiling chickens, split
- Oily salad dressing
- Parsley

Mix together first 5 ingredients and bring to a boil. Add rice and cook until tender, about 25 to 30 minutes; add butter. Meanwhile broil chickens, basting frequently with salad dressing. Place rice in a 12x7½x2-inch baking dish, top with chickens and bake in moderate oven (350°) 15 minutes. Garnish with parsley.

Macaroni 'n Cheeseburgers

(Makes 6 servings)

- 1 7-ounce package elbow macaroni
- 1½ pounds ground beef
- ½ teaspoon salt
- ¾ teaspoon Worcestershire sauce
- 1 tablespoon fat
- ¼ cup butter
- ¼ cup chopped onion
- ¼ cup chopped green pepper
- ¼ cup flour
- 1 teaspoon salt
- 1½ cups milk
- 2 cups (½ pound) shredded sharp process American cheese
- 3 slices sharp process American cheese

Cook macaroni in boiling salted water. Drain and rinse. Mix together beef, ½ teaspoon salt, and Worcestershire sauce. Shape into 6 patties and brown in hot fat. Melt butter; add onion and green pepper and cook until golden. Blend in flour and salt and gradually stir in milk; cook until smooth and thick, stirring constantly. Add shredded cheese and macaroni; pour into casserole. Top with hamburger patties. Bake in moderate oven (350°) till thoroughly heated, about 15 minutes. Place a triangle of cheese on each hamburger patty and trim with green-pepper rings and parsley before serving.

Homemade Pizza Dough

(Makes two 10-inch pizzas)

- 1 package active dry yeast or 1 cake compressed yeast
- 2 tablespoons water
- 1 cup boiling water
- 2 tablespoons shortening
- 1½ teaspoons salt
- 3 cups sifted flour

Soften dry yeast in 2 tablespoons *warm* water (for compressed yeast use *lukewarm* water) for about 10 minutes. In a mixing bowl combine boiling water, shortening, and salt; stir until dissolved; cool to lukewarm. Add half the flour and beat till smooth; stir in yeast; add remaining flour and beat till smooth. Knead on lightly floured surface till easy to handle, about 5 times. Divide dough in half; form into a ball; cover and let rest 5 minutes. To form Pizza Crust: Roll each ball into a 12-inch circle. Place each dough circle on a lightly greased cooky sheet. With scissors clip edges at 1-inch intervals and push up dough to make edge. Spread with a pizza topping and bake in hot oven (425°) about 25 minutes.

Quick Pizza Dough

To prepare a Quick Pizza Dough, use hot-roll mix and fix according to package directions, but do not let rise; cover and let rest 10 to 15 minutes. Divide dough in two and form into balls, and proceed to form the pizza crust according to directions given in the *Homemade Pizza Dough* recipe.

Pizza Topping (Shown in picture)

- ½ pound pork sausage links
- ½ cup chopped onion
- 2 cloves minced garlic
- Dash pepper
- ½ to 1 teaspoon oregano
- 1 8-ounce can (1 cup) tomato sauce
- 1 6-ounce can (¾ cup) tomato paste
- 2 cups shredded sharp process American cheese
- ½ cup shredded Parmesan cheese

Fry sausages till brown. Cut in 1" pieces. Drain. Pour off fat; except about 2 tablespoons, and cook onion and garlic till tender, but not brown. Add pepper, oregano, tomato sauce, and tomato paste; simmer 5 minutes. Spread half the sauce

[*Turn to page 68*

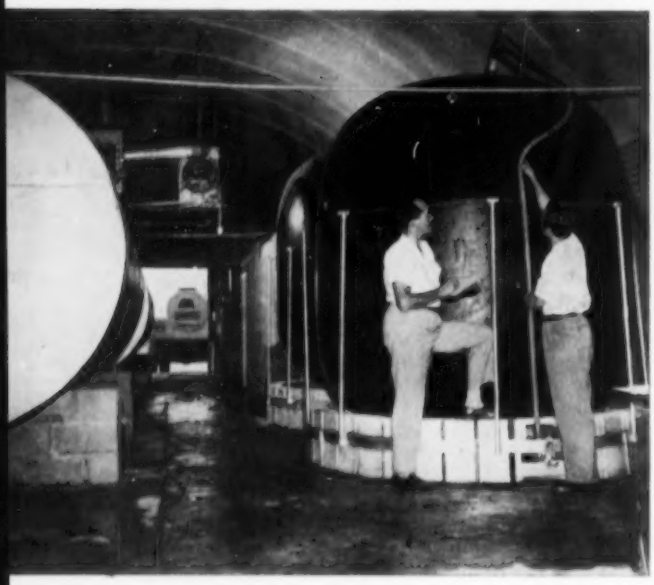
Photograph: Allen Snook, Inc.

LIQUID FEEDS ARE HERE

It has happened in fertilizers—now we're seeing it happen in feeds. Just how far or in what direction liquid feeds will go has not been clearly defined. But we do know this—they're here, and we'll hear a lot more about them. An example is shown below

Tanks, not bins, hold the ingredients

This is a long way from the dusty atmosphere of a typical dry feed grinding-and-mixing unit. Shown here are two types of containers. Rubber-type tanks at right contain phosphoric acid. Tanks at left hold buffer solution which goes into making of liquid feed



Meters, not scales, measure ingredients

Here are the 5 basic ingredients which go into this beef cattle supplement. Nitrogen is supplied by urea solution. Phosphoric acid takes place of a dry source of phosphorus. Amount of each ingredient can be varied. Ingredients go from here to mixing vat which adds final ingredient, molasses

Harry Buck, Christian County, Illinois,

Do you need more land?

You can produce more on land you've got—by specializing. Here's how to make it work

By C. F. Marley

Harry Buck raises 600 hogs yearly on less than 10 acres of land. He owns 40 acres, has 20 acres of continuous corn—and the other 20 is in farmstead, supplementary pastures, and his "hog plant." He rents 120 acres on a cash basis.

Here's how and why he arrived at his present system: In 1950, Buck found himself on a well-known spot—he had to move from a rented farm. Farms were hard to buy, and he had no "rich uncle" to help him buy one.

Buck had 10 years of experience on a good livestock and crop farm, he had his machinery and some breeding stock, but buying a farm on a $400-per-acre market was simply out of the question. If he was

Liquid feeds are no longer a thing of the future—they are here. During the past few years we've seen various forms of liquid feeds take shape. Most of them contained molasses. It served two purposes: (1) To supply needed energy and unidentified growth factors; and (2) to act as a carrier for other ingredients which are needed in smaller quantities.

Large-scale production of phosphoric acid is one of the keys to the development of liquid feeds—just as in fertilizer. The latest to join the ranks is a liquid form of urea, a source of nitrogen.

Looking further into the future, other ingredients can also be included in a liquid solution. Urea, as we mentioned, is now in liquid form. Methionine, and other synthetic amino acids, as well as other ingredients such as minerals, antibiotics, vitamins, and drugs can also be used in a liquid form or carried in a liquid solution.

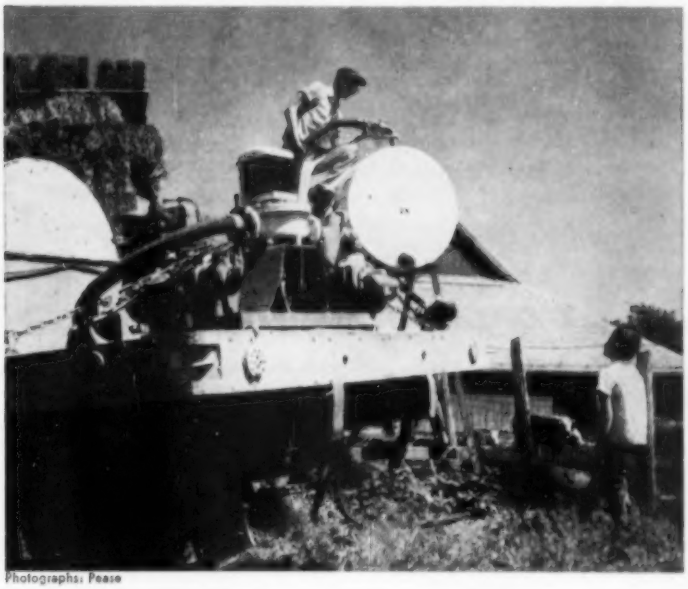
In fact, all elements except part of the carbon can be fed to ruminants in liquid form.

So far most of the attention has been devoted to beef and sheep supplements. Untouched are the possibilities in other livestock enterprises such as dairy, poultry, and hogs. Then, too, there is the possibility of feeding new high-energy ingredients in liquid form.

Some advantages of liquid feed are: [*Turn to page 54*

Farm delivery is made with tank truck

Farm delivery of liquid supplement is made in tank trucks very similar to those used to deliver tractor fuel. Liquid feed is pumped into a large overhead holding tank near the feedlot. Again, a meter—not a scale—is used to measure the amount of feed delivered. Delivery truck is loaded from large tanks at bulk holding station



Photographs: Pease

Hose delivers from tank to trough

Gravity makes feeding liquid a simple operation. Just open valve to fill trough. Cattle balance own ration, maintaining about a 12-percent protein level in rumen. Pictures taken on Joe Reinig farm Portsmouth, Iowa

finds hogs yield more profit

Pease

to farm on his own it had to be on some other basis.

Buck had been hearing of the idea of setting up a concentrated commercial livestock enterprise on just a few acres—vertical expansion it is called. For some time now, economists have been saying that too many people confuse high-volume farming with large acreage. Through vertical expansion it is possible to have high income on low acreage.

Buck knew of a 40 he could handle financially—with a usable house, barn, and hoghouse. To the west of it was 120 acres that could be rented as a cash-grain farm. The whole 160 acres was tillable, level, and fertile. Buck liked hogs, and in this setup the chance of raising them profitably in large numbers was promising.

Chance to finance his expansion helped him decide to buy. Like others who have looked into vertical expansion, Buck found that many lenders were (and are) ready to go along with *hogs and hog facilities* at a current and realistic rate, while they just shook their heads on farm *land*.

So Buck bought the 40 acres in 1950; moved onto it in '51. Here's how it has worked for him. He has some good ideas on vertical expansion and specialization that you may be able to use.

Specialize in one class of livestock. From a point of view of [*Turn to page 58*

Here is the silo-filling operation where ear corn and protein supplement are ground into silo at the same time. At each filling of glass-lined steel silo, Biddick mixes 4,000 pounds of ground ear corn and 350 pounds of 36-percent protein supplement. Silo holds 4,000 bushels. This will handle 320 heifer calves for about 60 days. After filling, elevators, motors, and conveyers take over

Photographs: Pease

Extra corn (usually about 10,000 bushels) is stored just outside the silo during the late fall or early winter. Picture at left shows Biddick using manure scoop to load the corn into wagon. By buying corn at harvest time, Biddick saves from 10 to 40 cents a bushel, depending on the year. Silo is filled about 6 times a year

Picture at right is view of part of 96-foot mechanical feeder. Overhead is the conveying part of the system. Below is a regular feed bunk. Note the pyramids of feed which are formed at the base of each of the openings. Overhead view of conveyer can be seen in the picture at the far right. Regular push-pull type of manure cleaner is used. A 3-hp electric motor powers the feeder

On the opposite side of the pole-type barn is the hay feeding area. About 200 bales are stored to the ceiling. A feeding manger is placed directly alongside the baled hay. It is a simple chore to toss the bales directly into the manger below.

Bale conveyer is shown at far right. It is a platform of oak planks about 30 inches wide. Over this platform run 2 steel chains (No. 52 links). Bales drop from elevator onto conveyer. The chains drag bale along until tipped off on either side.

A small 6-inch auger elevator is all that is needed to convey the complete ration from unloading mechanism on the silo to the mechanical feeding bunk. The auger is 22 feet long and is powered by a 1½-hp motor. The feed is cool when it comes from the silo, is yellow in color, has a slight yeast odor, and is very palatable. Biddick plans to build a small shed to protect this area

Materials Handling
Make It a System

Feeds complete beef ration right from the silo

By Vernon Schneider

Flip a switch and your complete cattle feeding chore is done. No grinding, no mixing, no hauling, no scooping.

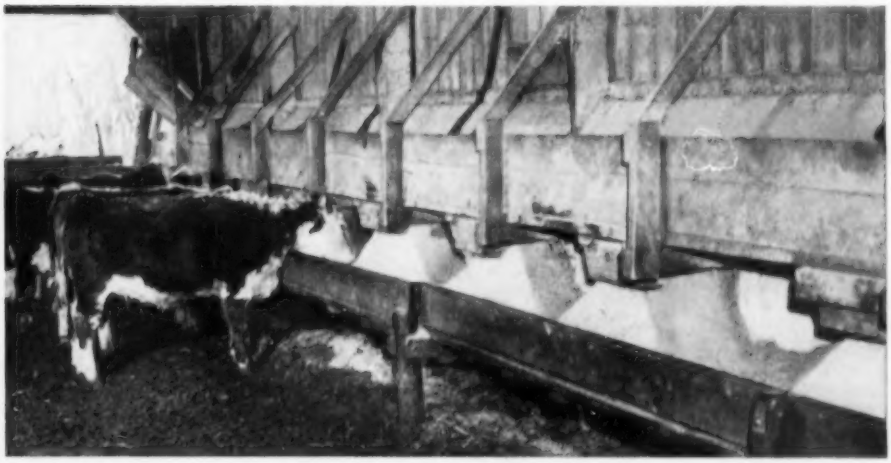
That's the system shown here on the Elmer Biddick and Son farm near Livingston, Wisconsin. It makes cattle feeding a simple and easy operation—even on a cold winter day.

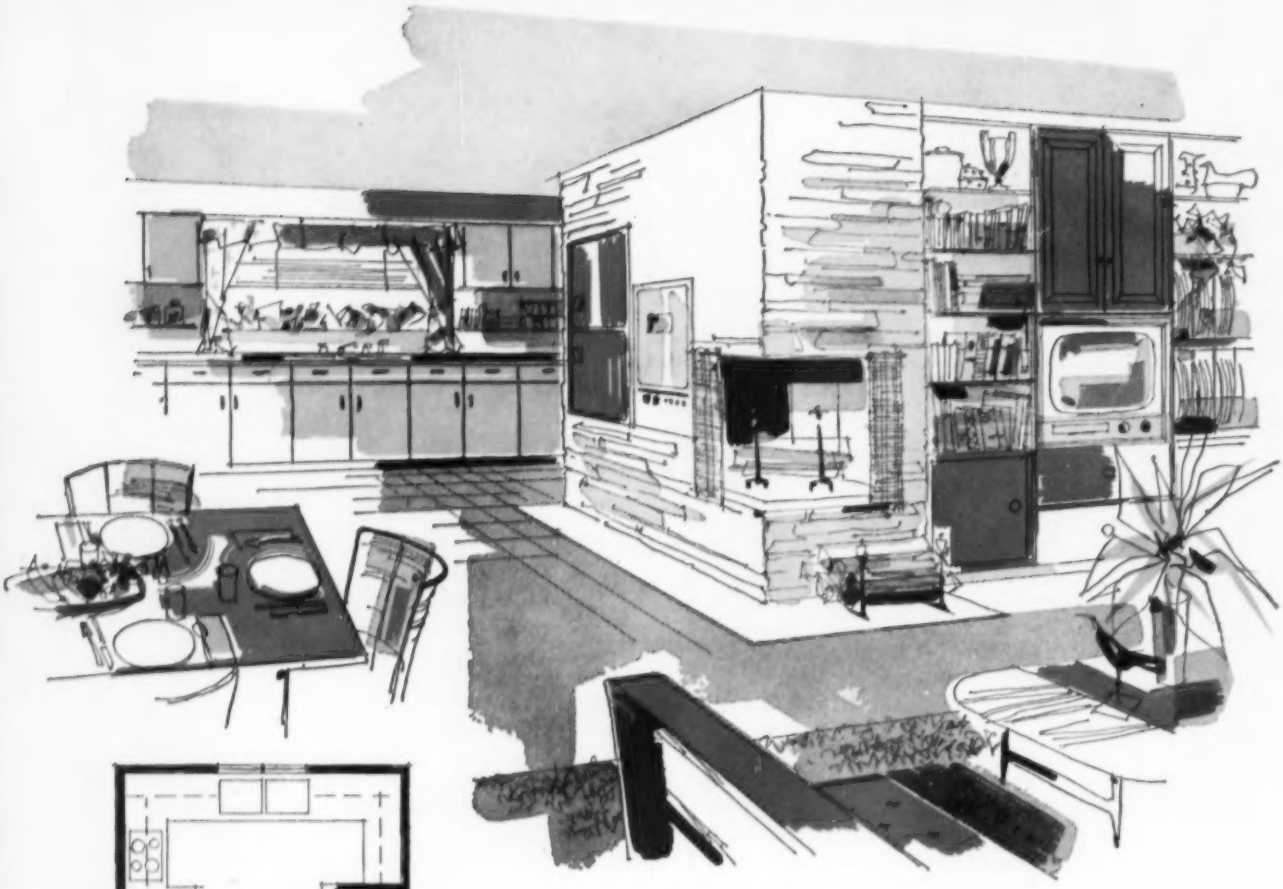
Nerve center of this feeding operation is the self-unloading, glass-lined steel silo. The complete ration—both ear corn and protein supplement—are ground into the silo at the same time (see pictures at left). To feed this complete fattening ration, Biddick just flips the switch. Elevators, motors, and a mechanical feed bunk do the rest.

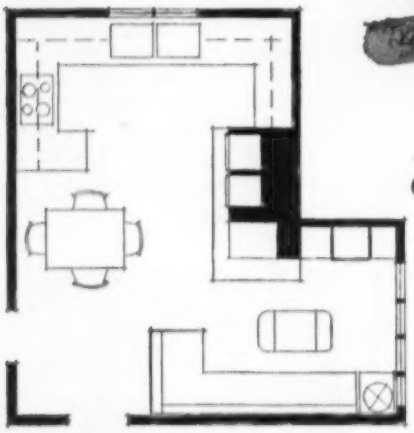
The 4,000-bushel steel silo will take care of feeding 320 heifers for 60 days. When empty, it's again filled with a reserve corn supply stored on the ground just outside the silo.

How much time to complete the feeding operation for these 320 heifers? About 1 hour per day for concentrates and 15 minutes for hay, says Biddick.

Here, briefly, is how this system works: The silo is filled to capacity with a mixture of 4,000 pounds of ground ear corn and 350 pounds of 36-percent supplement. They are mixed as they go into the silo. The bottom silo unloader dumps this complete mixed ration into a short elevator. This elevator conveys feed to a mechanical feeder. A push-pull gutter cleaner moves feed down the line, filling the first hole first and each following hole in order.







Cooking, eating, leisure in this farm family kitchen

Check the floor plan for the kitchen arrangement. There's ample space for appliances, storage, and counter area. The drawing shows many dining possibilities. The most casual breakfasts, buffets, barbecues, Sunday guest meals, have the right setting and you're included.

This room's designed for family relaxation. Anything goes, from a quick nap after lunch to a teen-age party. If you're building or remodeling, be sure to provide a place for leisure items the family enjoys. This fireplace wall accommodates TV, books, record-player, games.

Ideas for your kitchen—

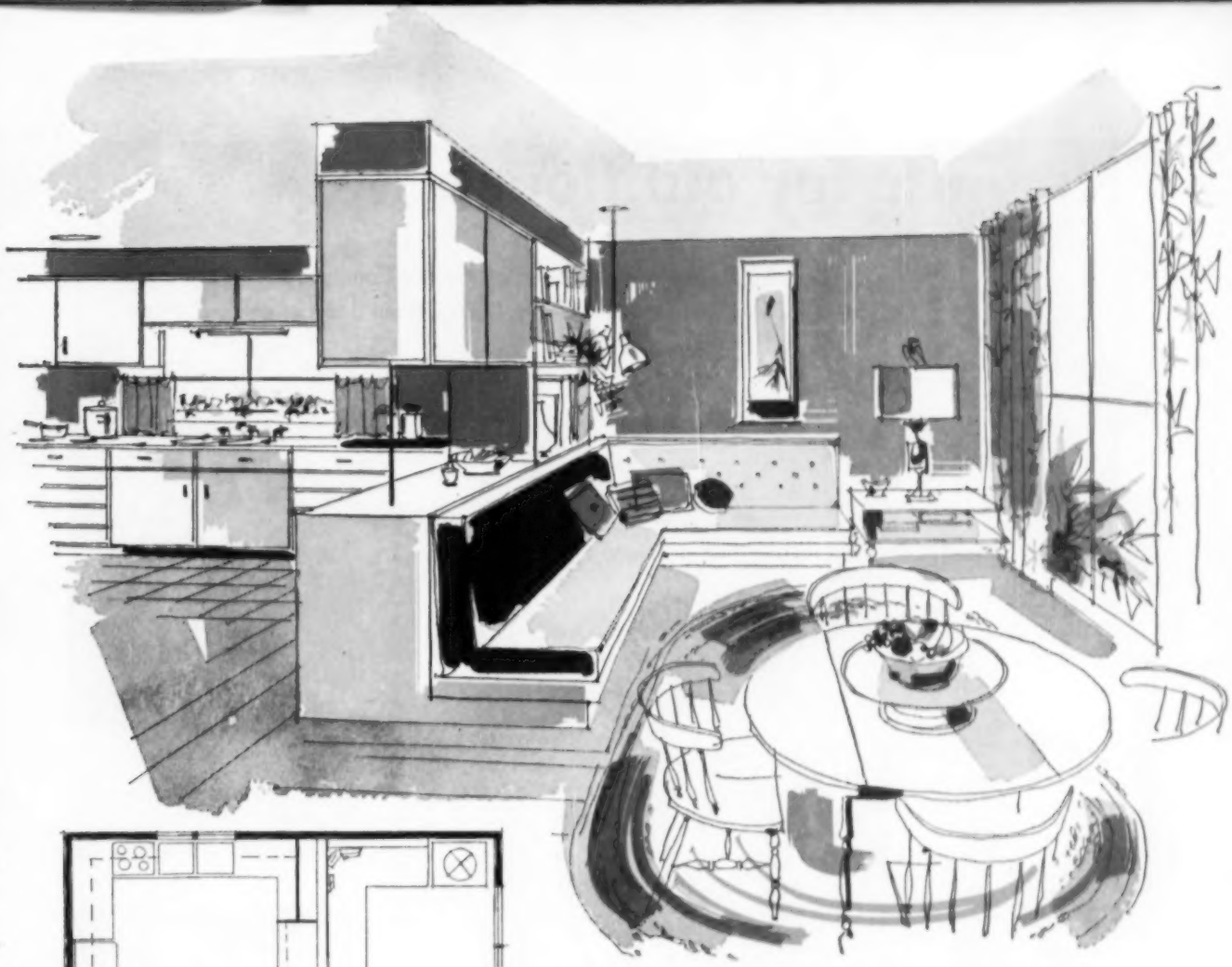
Dining, family-living centers

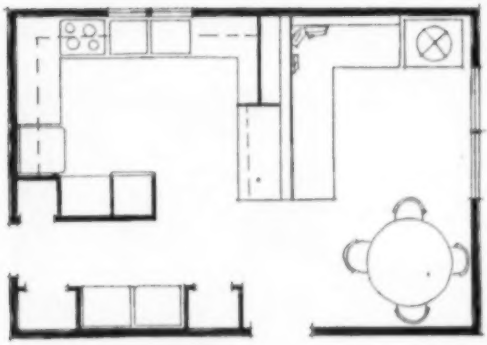
By Ruth Bos Krustev

Here are ideas for those two important family centers for your kitchen—dining and family living. They are neat, easy to clean and keep straight because everything has a planned place to belong.

Well-organized work centers, teamed with timesaving appliances help to keep the kitchen neat and attractive. They also make kitchen work easier, less exhausting. Now you can enlarge the kitchen to include an attractive, practical, and appealing center for the family.

These centers for farm living are multipurpose. They offer the men of the family a spot for brief minutes of relaxation in working clothes; provide for both junior and senior entertaining; supplement limited community recreational facilities. There's ample space for the little folks to play where you can supervise as you work. Family meals as well as guest meals can be served in attractive surroundings, and they can be altered to many different types of service. Buffet meals served on trays before the fireplace and TV make a meal special for just the family. And it's no extra work in these large family kitchens. Open barbecues at a fireplace spark a whole evening of family fun and member participation.





Kitchen full of centers right for farm living

No invitations needed. Who wouldn't join you in this kitchen? Dining centers offer variation. Quick meals and buffets are served at bar on kitchen side of couch. More sumptuous meals go to table.

Loafing's invited here as well as youngster entertaining. South wall (lower left) indicates a complete laundry, out of view.

Add a loafing corner, and dress up the dining center now

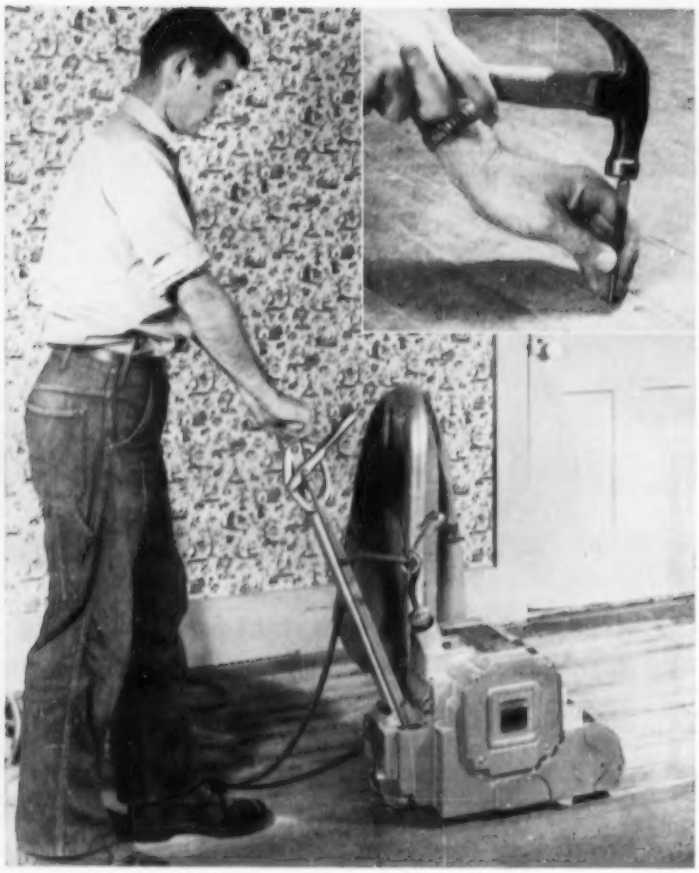
Look at your kitchen with imagination. Seek out an empty corner near the table, make it attractive and inviting.

Snappy new curtains and a comfortable place to sit or play will add new charm to the kitchen's appeal.

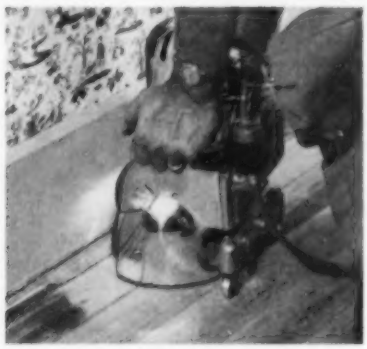
Here are 2 examples (at left and above) to give your creative eye a sparkle. Family members may come up with do-it-yourself talents to speed up projects. Add useful storage wherever you can.

New life for old floors

Here's how the Kenneth Cooks of Hardin County, Iowa, gave new beauty and life to their old floors. Refinish your floors using these steps



1. Before sanding, raised nailheads were countersunk, holes filled with wood filler, (photograph, top). For first "cut" over entire floor, Ken used coarse paper to remove old finish, deep mars, stains. (Eliminate coarse for less-worn floors.) Separate sandings followed, using medium and fine paper, always with grain of wood. A 3-inch overlap on forward, backward "cuts" with machine kept sanding uniform. Sanding equipment can be rented at a reasonable cost at most lumberyards or hardware supply stores



2. Edger, which operates flush against the baseboard, was used after each cut with the drum sander, using the same grits of paper as on the large sander. The edger was moved briskly and with a circular movement, leaving a smooth area to match the body of the floor

Photographs: Stanley

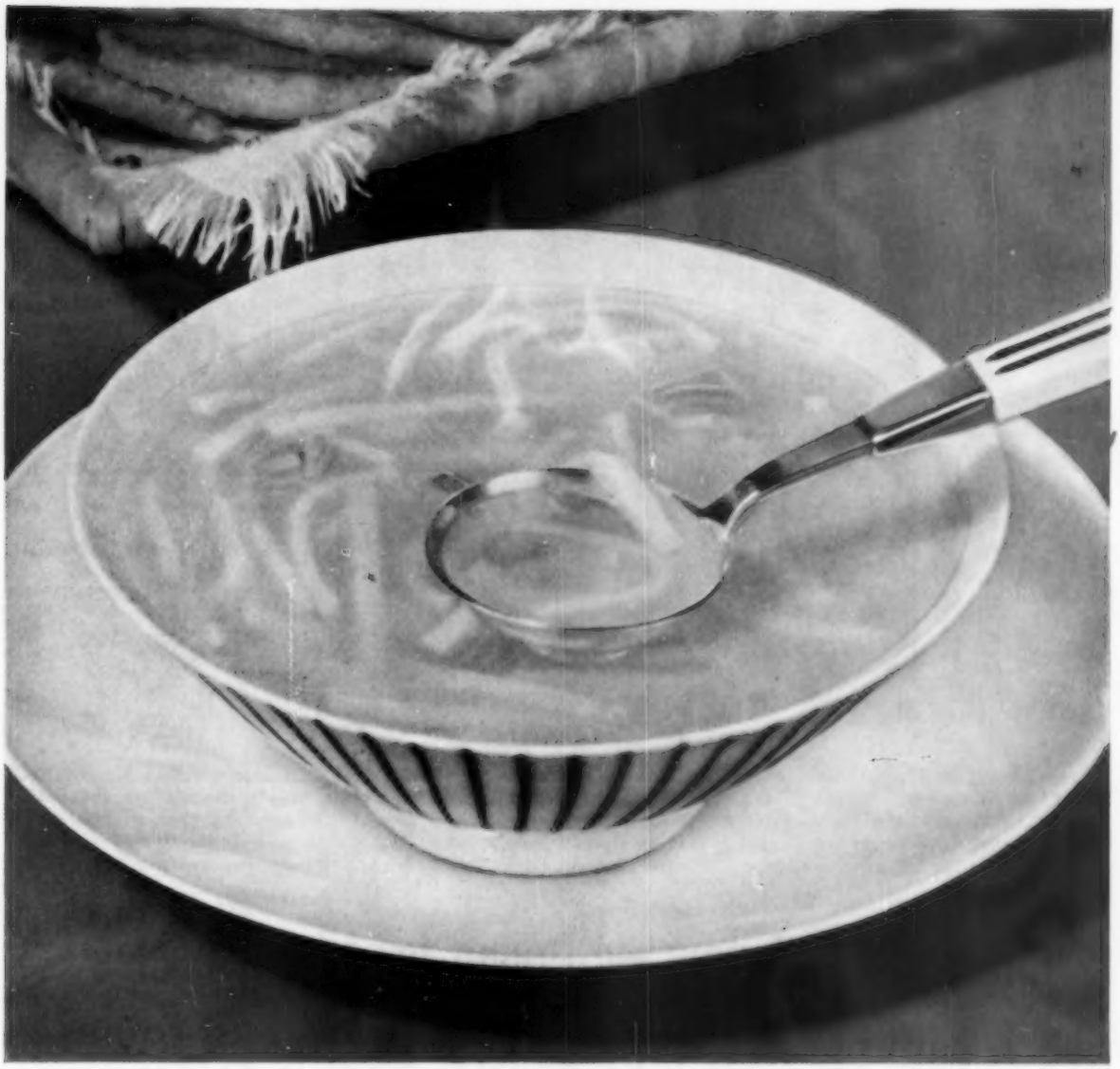
3. For an extra-smooth finish the Cooks used disc sander-polisher for the final sanding. This meant a smoother surface, made applying seal easier, cut down on amount used.

Evelyn used hand sanding block where filler was used close to baseboard. A scraper smoothed hard-to-reach corners where drum sander and edger could not be used.

4. After sanding, remaining dust was removed with vacuum cleaner. Using a lamb's-wool applicator, Evelyn applied 3 coats of fast-drying penetrating seal, in amounts the floor readily absorbed. A seal was chosen because of its durability, resistance to oxidation, stains, and scuffs, and ease of cleaning

5. For a smooth, more uniform finish, a steel-wool pad was placed on sander-polisher and used after first and second coats of seal, but not after third for a rather glossy appearance was desired. Several hours of drying time were allowed after applying each of the 3 coats of seal and before steel-wooling

6. A good grade of paste wax was applied to give final protection and beauty to the floors. Application was by hand with a rather thin coat evenly applied. Floor was buffed with brush on sander-polisher after wax dried 20 to 30 minutes. This final step gave further luster and beauty to the floors

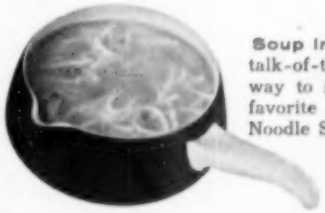


SOUP SERVICES BY GUMP'S, SAN FRANCISCO

How will you have your soup today?

In a soup bowl at the dinner table? That's a favorite way to have a soup like Chicken Noodle—warm and welcome with the aroma of golden chicken broth, egg noodles and tender chicken bites! Or will you have your soup informally in a cup or served from a buffet tureen into a ramekin. There are so many ways to enjoy soup. Isn't it good Campbell's makes 21 kinds to choose from?

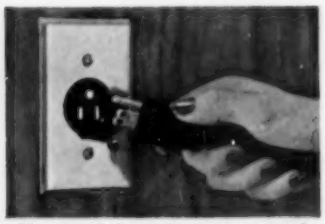
Soup in a cup . . . perfect way to carry Chicken Noodle Soup where you want it, when you want it!



Soup in a ramekin talk-of-the-table *new* way to serve an old favorite . . . Chicken Noodle Soup!

SOUPS SUPPLY BASIC NUTRITIONAL NEEDS: Vitamins, Minerals and Liquids—for general well-being • Proteins—for upkeep and growth • Carbohydrates—for energy

Once a day...every day...SOUP!



No special wiring necessary! This General Electric Dryer operates automatically on 230 volts or 115 volts.

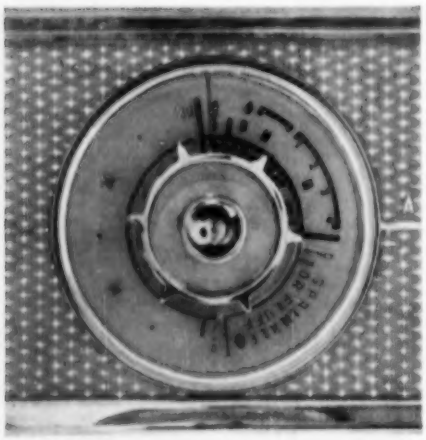
Dampen clothes for ironing in minutes. Fill Automatic Sprinkler with water—slip into dryer—turn control to SPRINKLE.

Gentle fragrance from General Electric Air Freshener enters air stream and fills clothes with a fresh, breezy-day smell.

Fast, perfect drying . . . indoors . . . can be yours anytime at all with this new, high-speed General Electric Dryer. Your clothes will smell fresh . . . feel soft . . . and be so wrinkle-free you can actually save hours of ironing time every week! See it at your General Electric dealer's soon. General Electric Company, Louisville 1, Kentucky.

Now! Perfect, Automatic Drying for All Washables... with the New 1957 General Electric Dryer!

Dries a typical-sized family wash in less than 35 minutes!



Just one dial to set for perfect results! New Automatic Control adjusts time and temperature to each load—every fabric. Clothes dry quickly, at low, safe temperatures. High-speed air-flow system uses air circulation instead of direct heat.

Foot Pedal opens full-width, magnetic door.

Five colors plus white! Petal Pink, Turquoise Green, Canary Yellow, Woodtone Brown and Cadet Blue available at slight extra cost.

New General Electric Dryer with Automatic Control about $2.70 per week after small down payment. Other high-speed General Electric Dryers start at approximately $149.95.

Prices subject to local variation. See your local dealer for his prices and terms.

Progress Is Our Most Important Product

GENERAL ELECTRIC

Photographs: Stanley

Orange Diamonds (Makes 18 biscuits)

Sift together 2 cups sifted flour, 3 teaspoons baking powder, 2 tablespoons sugar, and ¾ teaspoon salt. Add 1 tablespoon grated orange peel. Cut in ⅓ cup shortening till mixture resembles fine corn meal. Add enough milk to ⅓ cup strained orange juice to make ¾ cup; add all at once to dry ingredients, mixing to a soft dough. Knead a few times on lightly floured board. Roll into a square ½ inch thick. Cut into strips 1½ inches wide; then cut diagonally to form diamonds. For browner tops, brush each biscuit lightly with milk; sprinkle with sugar. Clip center of each diamond with scissors. Drop ¼ teaspoon marmalade on each. Bake in very hot oven (450°) 12 to 15 minutes.—*Mrs. Roy Hanna, Texas.*

Blueberry Biscuits (Makes 18 biscuits)

2 cups packaged biscuit mix
½ cup sugar
⅔ cup milk
1 cup blueberries drained

Combine biscuit mix with sugar. Stir in milk. Mix in blueberries lightly. Drop by tablespoonfuls onto greased baking sheet and sprinkle each top with a little sugar. Bake in hot oven (425°) 10 to 12 minutes. —*Mrs. I. M. Walters, Virginia.*

Cinnamon Biscuit Balls (Makes 36 balls)

Sift together 2 cups sifted flour, 3 tablespoons sugar, 1 teaspoon soda, and ½ teaspoon salt. Cut in ⅓ cup shortening till mixture resembles coarse corn meal. Combine 1 beaten egg, ¼ cup milk, and ¼ cup vinegar; add all at once to dry mixture. Stir lightly with fork, just enough to moisten all flour. Knead gently ½ minute on lightly floured surface. Pat or roll lightly to ¾ inch thick. Cut with 1-inch cutter. Roll into balls; dip balls in ½ cup orange juice and roll in mixture of ½ cup sugar and 2 tablespoons cinnamon. Place 3 balls in each cup of greased 1½-inch muffin pans. Bake in very hot oven (450°) 10 to 12 minutes.—*Mrs. L. W. Foubert, Iowa.*

Coffee Banana Pie
(Makes 9-inch pie)

32 (½ pound) marshmallows
2 tablespoons instant coffee
½ cup hot water
1 cup heavy cream, whipped
2¼ cups sliced bananas
1 9-inch graham cracker crumb crust

Combine marshmallows, coffee, and water over medium heat till marshmallows are dissolved; cool till slightly thickened. Fold in whipped cream and sliced bananas. Pour into 9-inch graham cracker crust. Chill several hours before serving. Garnish with sliced bananas or whipped cream before serving, if desired.—*Mrs. Marvin Luther, Nebraska.*

Coffee-flavor desserts

If you think of coffee only in a cup you're missing the delights of its use as a flavoring. Try these tasty desserts

Cut out these recipe pages and file them in your favorite cook book

Coffee-Date Mallow (Makes 8 servings)

- ½ envelope (1½ teaspoons) unflavored gelatin
- 2 tablespoons cold water
- 2½ tablespoons instant coffee
- 1 cup hot water
- 32 marshmallows (½ pound) cut in quarters
- ⅛ teaspoon salt
- 1 teaspoon vanilla
- 1 cup heavy cream, whipped
- 1 cup chopped dates

Soften gelatin in cold water. Dissolve coffee in hot water over low heat; add marshmallows, gelatin mixture, and salt. Stir till dissolved. Cool and add vanilla. Chill. When partially set, whip till fluffy. Fold in whipped cream and dates. Turn into small molds or 1½-quart mold. Chill. —*Mrs. L. W. Foubert, Iowa.*

Coffee Butter Cookies (Makes 36 cookies)

- 1 cup confectioners' sugar
- 1 tablespoon instant coffee
- 2 cups sifted flour
- 1 cup softened butter

Mix and sift confectioners' sugar, instant coffee, and flour. Blend in butter till soft dough is formed. Chill 1 hour. Shape into 1-inch balls. Place on ungreased cooky sheet about 1½ inches apart. Flatten cookies with lightly floured fork. Bake in slow oven (300°) 20 to 25 minutes.

Coffee Ice Cream (Makes 1½ quarts)

- 4 teaspoons instant coffee
- 2 teaspoons unflavored gelatin
- ½ cup sugar
- Dash salt
- 1 cup milk
- 2 cups light cream
- ½ teaspoon vanilla

Combine coffee, gelatin, sugar, and salt in saucepan. Add milk and cook over low to medium heat till gelatin dissolves, stirring constantly, 3 to 5 minutes; cool. Add cream and vanilla. Turn into refrigerator tray and freeze. When partially frozen, break into chunks, with rotary beater or electric mixer, beat till fluffy and smooth. Return to tray; freeze 30 minutes longer. Stir; freeze till firm.—*Mrs. Jo Hershline, Indiana.*

Cut along dotted line

Honey Date Biscuits (Makes 18 biscuits)

- 2 cups sifted flour
- ¾ cup sugar
- 4 teaspoons baking powder
- ½ teaspoon salt
- ¾ cup shortening
- 1 beaten egg
- ½ cup milk
- ½ cup honey
- ¾ cup butter
- ¾ cup chopped dates
- ¾ cup chopped nuts
- ¾ cup crisp rice cereal

Sift together dry ingredients. Cut in shortening till mixture resembles coarse corn meal. Combine egg and milk and add, stirring till dough follows the fork around bowl. Roll out ½ inch thick on lightly floured surface; cut with 2-inch biscuit cutter. Mix together honey, butter, dates, nuts, and crisp rice cereal. Place paper liners in 2½-inch muffin pans; put 1 tablespoon honey-date mixture in each liner; place biscuit on top of each. Bake in hot oven (400°) 15 minutes or till golden. Cool slightly; remove the paper liners.—*Mrs. Herman W. Cramer, Wisconsin.*

Best ways with biscuits

Hot biscuits make any meal an occasion. Here are some delicious variations your family will applaud

These tests show how you can

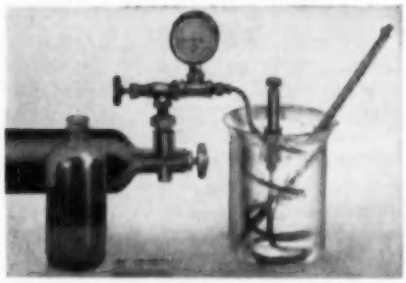
CUT YOUR GAS BILLS THIS WINTER

1 **Filters that stay white** in the Skelgas Lead Acetate Filter Test are free of sulphur that can corrode lines, pit burners. Filter at right betrays presence of sulphur. Such gas is rejected by Skelgas.

Does your LP-Gas seem to use up too fast? If so, it's probably because the gas contains impurities such as moisture, sulphur, or undesirable gases like ethane. The more impurities a gas contains, the faster it uses up.

That's why you may be losing dollars by "saving" pennies with a so-called "cut-rate" LP-Gas. You see, cut-rate dealers often buy their gas on the open market and have no way to check its purity.

But how can you be sure of getting pure LP-Gas . . . gas that won't use up so fast? The best way we know is to depend on Skelgas—the *only* gas that has passed all the purity tests shown on this page. This exclusive combination of 4 Skelgas Purity Tests can mean lower gas bills for you. Try Skelgas and see.



2 **You're guarded against freeze-ups** that cut off your gas supply by the Skelgas Cobalt-Bromide Test. Test chemical changes color if moisture is present in gas. Skelgas rejects such "wet" gas.

3 **No gas pressure problems with Skelgas.** Skelgas rejects gas when the Vapor Pressure Test shows presence of undesirable gases that would fail to vaporize and burn properly.

4 **Complete combustion is assured by** the Skelgas Mercury Freeze Test. Test detects presence of too much butane, that would settle out and fail to vaporize at temperature below 32° F.

Look what you can do with just one cylinder of Skelgas:

Cook 410 meals for 4. Skelgas Ranges priced as low as $99.95. Range above, weekly payments from $4.31.

Heat 3,344 gallons of water. Skelgas Water Heater gives 50% more hot water! Weekly payments from $1.74.

Dry 3,113 pounds of wet clothes. Skelgas Dryer dries even blankets fluffy light! Weekly payments from $3.46.

It's just good sense to depend on Skelgas and Skelgas service. Skelgas has the industry's most trusted name to look after—as well as your comfort. Call your **Skelgas** dealer.

SKELGAS DIVISION, SKELLY OIL COMPANY, P. O. BOX 436, KANSAS CITY, MISSOURI

WHERE THERE'S A WILL
...THERE'S A DAVIS

...it makes its own way

Let the Davis Loader tackle those hard-labor jobs that take up your time and eat up your energy. You'll find the Davis finishing the job in no time, and ready to start on another. It pays its own way because it's not just another loader, but the *measuring stick* for all others. While many have adopted its design and features, none have been able to reach its high performance standards and still sell for the same price as the Davis. Compare it... operate it, and you'll see why.

A BEAUTIFUL BACK-HOE COMBINATION FOR THE FARM

Davis back-hoe is perfect for digging or cleaning irrigation canals, roadside ditches; digging laterals and septic tanks. Digs at right angles as well as to rear... detachable in five minutes.

Available for Most Popular Tractors
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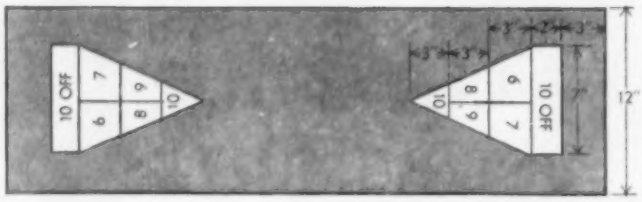


Table shuffleboard—real fun to make and play

Just like in outdoor shuffleboard, each player takes turns placing a disc on "10 off" area and sliding it to the opposite end until all 8 discs have been played. If 4 persons play, partners should be formed—one playing at each end.

Only those discs which are clearly in the target area and not touching a line count toward a score. Agree on what the winning score shall be before beginning to play.

All the materials you need are one piece of 12"x3' of ¼" plyboard, 9' of ¼"x½" strip or molding, and 8 discs of 1" doweling ¼" thick.

To construct, draw in target areas at each end of the board and paint or stain the boundary lines. Then fasten strips around edge of playing field. Finally, cut discs and paint or stain 4 of them one color and the other 4 another color. You're now ready to play.

Liquid feeds

From page 43

● First, many feed ingredients which cannot be manufactured, stored, or transported in dry form can be fed in liquid carriers.

● Cost of manufacturing and storing liquid feeds is less.

● Liquid feeds are easy to handle. They easily lend themselves to automatic handling since they are free flowing.

● Damage from rodents and insects is nearly eliminated, they will not spoil, and there is no bacterial action.

On pages 42 and 43 we show an example how one liquid feed, a cattle supplement, is being handled from manufacturer to the feedlot. Other liquid feeds could be handled in much the same way.

Here are the basic ingredients of this cattle supplement:

1. Phosphoric acid—a highly digestible soluble source of phosphorus. (The same as is used in soft drinks.) Phosphoric acid prevents spoilage, makes feed nonattractive to flies, and keeps feed flowing freely in all temperatures

2. Urea—supplies nitrogen which is needed to build protein.

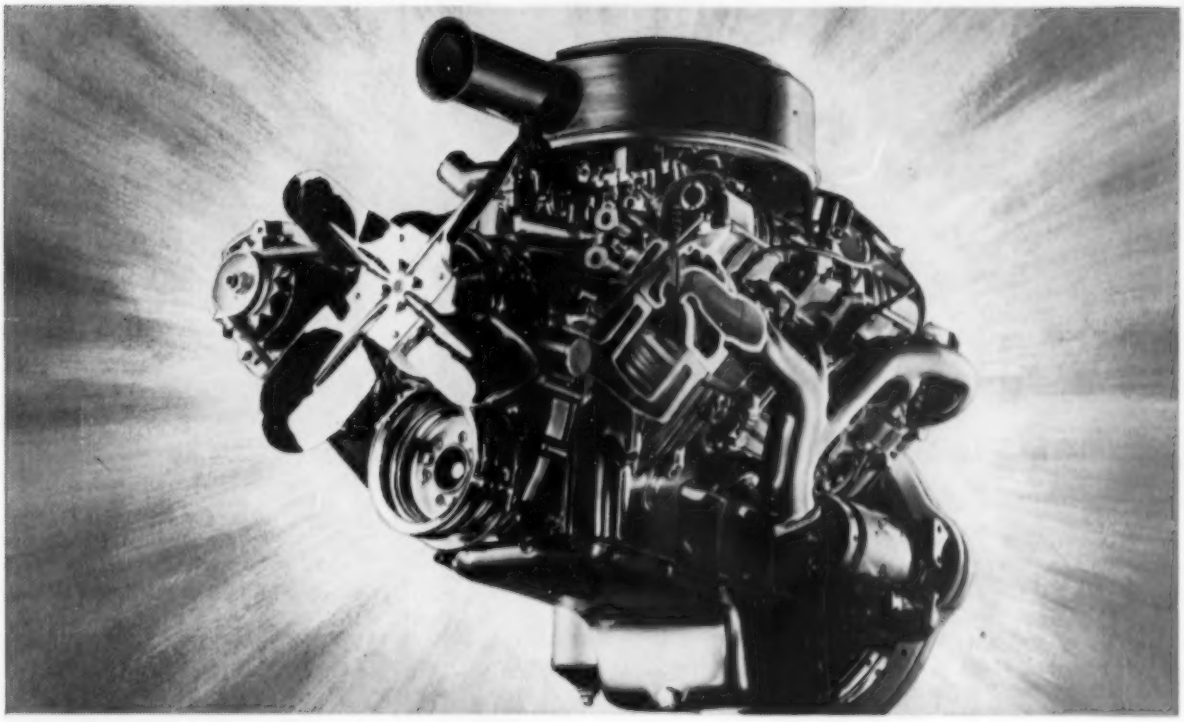
3. Molasses—supplies carbon, potassium, and other essential minerals.

4. Ethanol (a form of alcohol)—supplies needed hydrogen for production of amino acids. It is regarded as an "accelerator" of the microlife in the rumen because of its high energy value. This speeded-up rumen action enables the animal to assimilate more feed in a shorter time.

5. Other ingredients such as calcium, vitamins A, D, and E, methionine, and a complete range of minerals essential to the health of the animal.

As we mentioned before, only time will tell how far we will go to liquid feeds. We feel that liquid feeds *do* have a place in livestock feeding. Problems in their manufacturing, distribution, and handling are being worked out as we increase the use of this form of livestock feed.

"Are you sure your dad won't be mad if we send his silo to Mars?"



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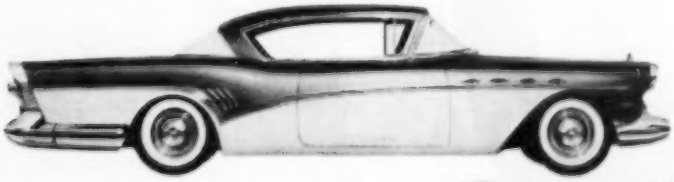

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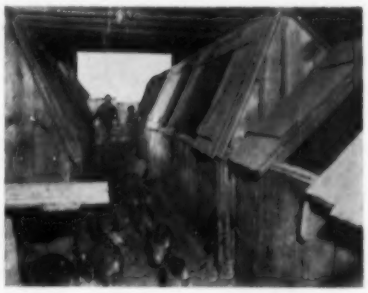
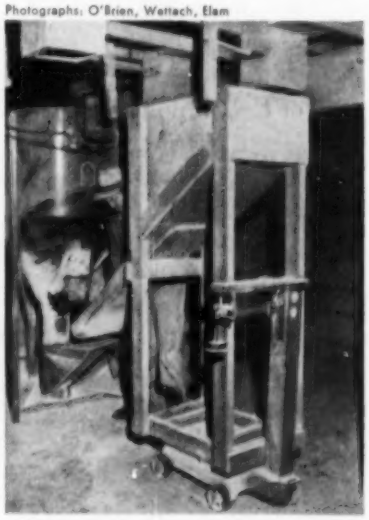
Door turns corner on Dallas G. Rich farm, Noble County, Ohio. Door is suspended from swivel rollers on two sections of track; opens easily when snow piles up



For early spring litters on Louis Larsen farm, Washington, Iowa, portable 3-pen hoghouses are pulled into cattle shed, pushed in place with tractor loader. Roof doors can be closed. Pigs have run of shed area, later are moved to pasture

Photographs: O'Brien, Wettach, Elam



Feed grinding and mixing is made easier by James Taresh, Pleasant Grove, California, with tall hopper mounted on movable scales. Unit is moved to outlet from bin above, each feed delivered, weighed, dumped into 500-pound capacity mixer

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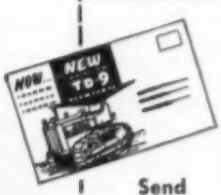

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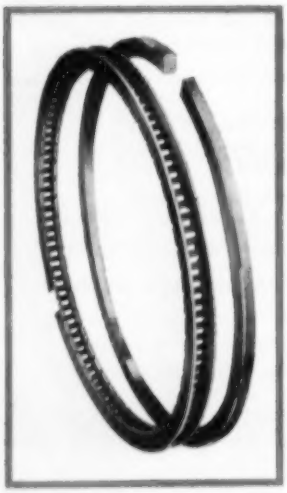

On modern mechanized farms, it takes a heap of power to keep plows, disc harrows, cultivators and other vital equipment operating at top efficiency. Full-powered farm engines are a "must". And one sure way to assure maximum power and economy is to install Perfect Circle 2-in-1 Chrome piston rings in your farm engines right now!

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The standard of comparison

Need more land?

From page 43

labor and facilities, Buck believes it is best to specialize in one class of livestock. Choose the class you like best. You have to enjoy your work or you will tend to neglect it. Two practical choices of livestock in vertical farming are hogs and chickens. Buck likes hogs; always has. They were his natural choice.

Buck believes, also, that it is easier to take care of a few more animals in each pen than to care for different kinds of animals in separate pens, pastures, and buildings.

Get big volume early. Currently Buck farrows 70 to 85 litters yearly on 10 acres of his 40. Buck believes volume should be high enough on vertical farms to provide good average returns—high enough to sustain your operation and give a decent income in times of narrow margins.

As for getting high volume quickly, look at these figures: Installed at the farm when he moved there was a concrete feeding floor large enough for 100 head. He added more floor space in 1952 and 1953. He farrowed 28 litters in '51; 30 in '52; 70 in '53; 86 in '54; 73 in '55.

Get full use of manure. To realize the full return from a vertical hog program, you have to make full use of manure, Buck emphasizes. Twenty acres of his 40 are in continuous corn, the fertility being provided by the manure alone. Generally speaking, he gets yields from 80 to over 100 bushels per acre on this land. In 1956, with ample rain, corn hit 120 bushels per acre. A lot of manure also goes *directly* to the 10 acres he has in hog pasture.

Reduce labor, control disease. Buck concentrated all hog operations on 10 acres to keep labor per pound of hog produced as low as possible. His 10-acre hog plant is divided into 6 small pastures ranging from 1 acre to 2½ acres. Hogs are farrowed and started in these small pastures, then finished on concrete.

For farrowing and starting, Buck uses portable 2-sow houses with no floors. This means clean ground for the pigs and cuts down preparation and clean-out chores.

Buck ran water pressure lines equipped with automatic, electrically heated waterers to these pastures. Because of the compact pasture layout, the automatic setup has not required an excessive investment.

Hogs are finished on concrete both in winter and summer. Buck finds this system reduces fencing, feed hauling, and need for shades. It also eliminates need for ringing. No need to haul water for wallows, either; simple pressure sprays do an effective job on concrete.

Buck rotates pastures for sows and pigs as best he can for sake of sanitation. So far, pasture rotation has been proving out, but he does have a high concentration of hogs. If disease control becomes a factor, he will switch 10 acres now in pasture to corn.

Buck treats for erysipelas and cholera about 10 days before weaning, while hogs are still on pasture.

All pigs are castrated before 10 days of age while still in farrowing houses. It means a minimum setback to the pigs at that age and it's easy.

Base schedule on labor, market. Buck follows a strict schedule tailored to his hog-grain farm enterprise, and one which helps him hit seasonal highs in the market. He breeds sows in groups of 10 to farrow at 2-week intervals. Sows are bred from October 1 to November 1, to farrow beginning in mid-January. These hogs go to market by mid-July.

For fall pigs, Buck breeds in late March and up to May 1 to farrow from the last part of July to mid-September. These hogs are marketed beginning early in January and are all gone by early March.

Spring farrowings run from 28 to 30 sows, while 40 to 45 sows farrow in the fall. The lower number is farrowed in spring because of limited housing facilities and January and February pigs require more labor because of the fight with the weather. In summer he uses shades for the extra sows.

Note that this system puts the heavy hog work before spring field work and before harvest in the fall. It lets him do a better job with hogs and a better job with crops.

Keep strict feed records. Failure to maintain courage and morale is the downfall of many a hog producer. Buck gets around this one by keeping scrupulously close records. He also spot-checks and weighs certain marked hogs to have a progress report on individual batches. His feeding efficiency is high and he knows his costs.

Farrow big litters, save 'em. In 1955 Buck weaned 8.8 pigs per litter, farrowing 73 litters. He stresses careful selection, care, and feeding of sows as the way to save big litters. He also likes to keep a number of "old faithfuls," these being sows which have proved themselves good mothers in the past.

[*Turn to page 60*

"And to think I've got automatic waterers in the pasture and the barn."

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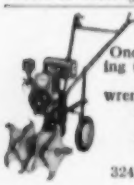
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Need more land?

From page 59

He crossbreeds, then selects sows from large litters. He likes them long and deep with 14 to 16 teats—and gentle.

Farrow your own pigs. Buck thinks it is absolutely essential to farrow your own pigs in a vertical operation. He says you take a gamble in buying feeder pigs.

Heavy use of pig starter pays off. Buck's records show heavier use of starters gave better feed conversion ratios, yet his feed costs per 100 pounds of gain run about $1.38 under the average. His returns per $100 worth of feed fed was $21 higher than the average in 1955.

Wayne Bohlen, Buck's farm management fieldman, explains this as follows: Buck markets at 222 pounds, which is 16 pounds below average, and in so doing realizes better prices. He also makes up quite a lot by pointing for seasonal market highs. In 1955, these factors meant $1.87 premium per hundred.

Feeding "kinks" that help. Buck's pigs have access to a creep after 10 days of age. First they receive prestarter, then regular starter.

On the feeding floors, hogs are divided into batches according to size. He has 3 separate floors, with 5 partitions, and also a "runt pen." Runts grow faster when they have an even break at the feeder.

Where are the limits? A natural question on vertical expansion is how far can you go; where do you stop?

Buck says *labor supply* is the biggest factor. With some adjustments in his schedule, such as farrowing sows in December and June, he could go to 100 sows. He may do this sometime as it would spread his income, and his present facilities would handle it. However, he would sacrifice some in seasonal prices on the June-farrowed pigs, and he would run into some labor difficulties in June when he is in the fields.

Feed is not the *limit* of the operation. Actually, Buck bought all his feed in 1955, having had drouth and a corn crop failure in 1954. In fact, a man having no other farming ground could easily raise more hogs as he would have no field work other than the few acres he has in continuous corn.

New-type hog shelter

This hog shelter is lightweight and low cost. The frame is lightweight steel and the rest corrugated roofing sheets. Since Floyd Gustafson, Buena Vista County, Iowa, built many of these houses at one time, all constructed alike, he made a jig over which to form the curvature of the sheets and the inside channel-iron frame.

The structure rests on 1"x1"x1/8" angle iron as a base for both sides and the rear end. Plasterer's channel, 3/4" in width, was purchased to form inside hoops for ends of the units. Due to its light weight and ease of forming to a desired shape, Gustafson found this channel material worked out better than conventional sizes and weights of steel which are stocked by blacksmith shops. This channel also serves to hold the end sheets in place at the rear of the structure.

The 28-gauge, corrugated galvanized roofing is also an asset to the "strength with little weight" feature. Base dimensions of the unit are 6' long and 55" wide.

Due to the design of this shelter, several can be stacked together, one over the other, for hauling to pastures or for compact storage. They are easily moved by one man when on the ground by simply walking at the center of the structure and balancing it on the shoulders.

At least one company is now manufacturing hoghouses similar to these.—*Ken Hadenfeldt.*

Photographs: Author

Total weight of these hoghouses is under 100 pounds. Cover sheets are 10' long, plasterer's channel reinforces ends.

Skids are 1"x1"x1/8" angle irons with 1"x1/8" flat irons welded to them to form the channels into which roofing is bolted. Units are staked down to prevent blowing away.

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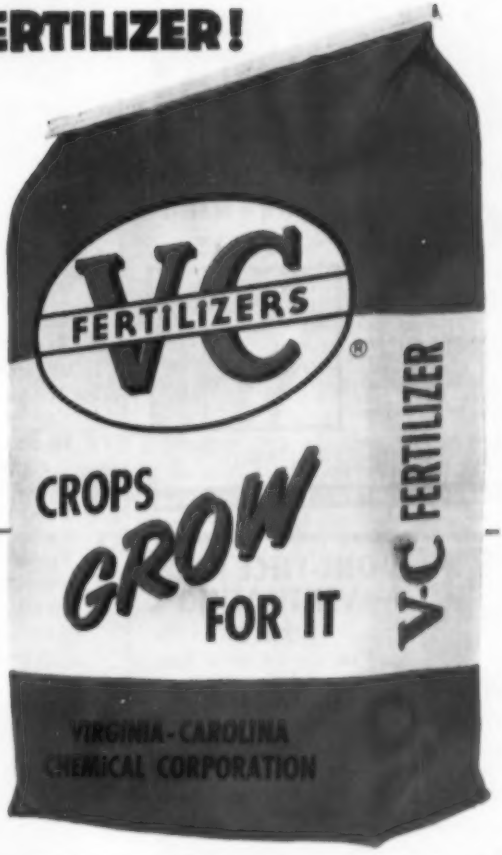

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Conveyer handles forage in stanchion barn

By E. C. Schneider
University of Vermont

Forage drops from supply conveyer to manger conveyer for distribution. Leavings drop into pit at far end. Electric-fence trainer (right) holds the cows back until conveyer has feed in front of all stanchions, then raises

If you're feeding 30 dairy cows an average of 240 days per year, you must handle 211 tons of fodder and bedding. Every time you rehandle these materials you lift and carry another 211 tons.

A good way to reduce this handling is to use a conveyer system like the one shown here. Developed experimentally by agricultural engineers at the University of Vermont for 8 stanchions, it was responsible for saving 58 percent of the operator's time and 77.5 percent of his travel. Here's how it works.

A supply conveyer originates under a hay chute and delivers hay to a manger conveyer which carries the hay to the cows. The same conveyer system can be used for silage.

Photographs: Author

Return leg of flights is in manger wall and simplifies construction where concrete manger would otherwise need to be chipped out. A 1/3-hp motor drives the 8-stanchion unit

To use the system the operator ascends the silo or hay storage where he presses a button to start the supply conveyer. Then he begins to pitch feed at a constant rate into the supply conveyer. When he's pitched enough to fill the manger conveyer, a buzzer sounds to signal him to stop. From then on, the system operates automatically.

As forage passes up the supply conveyer, it operates a micro switch which starts the manger conveyer and brings the electric-fence trainer to the down position to keep the cows from eating as feed passes by. Before the fresh forage arrives at the manger, the manger conveyer has had a chance to sweep any "leavings" into a pit at the end of the manger.

When the manger conveyer has hay or silage in front of every cow, it stops. The electrice-fence trainer raises and allows the cows to eat.

The cows soon become accustomed to the electric trainer and the conveyer cleans the manger satisfactorily.

Both conveyers run about 25' a minute and are made of No. 55 agricultural link chain. The supply conveyer uses a 1/4-hp motor and the one in the manger 1/3 hp. Cost of electricity for both conveyers runs about 23 cents a month.

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This prediction is based on the experience of 3,414 flock owners in 19 states, who last year raised 1,152,115 chicks.

These birds were not broilers. They were average farm flocks. They were straight run, sexed pullets and cockerels—68.3% were so-called light breeds—31.7% heavy breeds.

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At eight weeks, the average weight of the 1,152,115 birds was 2.36 pounds—they had eaten, on the average, only 5.369 pounds of feed—2.275 pounds of feed per pound of gain.

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So you're retiring

From page 24

however, only her benefit will be affected.

• When you become 72 years of age, your earnings no longer affect your benefits.

Let's add up these facts. You can cash or share lease your farm, do nothing, and still get all your social security checks. You can rent part of the land, earn up to $1,200 a year on the rest of the farm or in some other job, and still get all your checks. Or you can go on farming and ignore social security benefits.

There are tax angles, too. Suppose a farmer who is eligible for monthly payments of $79.50 for himself and $39.80 for his wife continues to farm throughout 1957, and has a net income of $3,600. He couldn't get any social security payments for the year so his total income would be $3,600.

Now, suppose he cash rents part of his farm for $1,000, takes it easy and has a net farm income of $1,200 from the rest of the place. This way his total income includes $1,431.60 in social security benefits for all 12 months, his $1,200 farm income, and the $1,000 rental income—making a total of $3,631.60.

That's $31.60 more than if he had farmed all his land. In addition he pays the 3⅜-percent social security tax on only the $1,200 of earned income, instead of on $3,600. And he would pay no federal income tax on the $1,431.60 of social security benefits.

Consider all these angles when you're deciding what to do now so far as your farm is concerned.

You can increase your benefits. Even though you're now entitled to get retirement benefits, but had very low income in 1955 and 1956, you can still work for a higher base for benefits. You do this by simply continuing to farm or by working off the farm, drawing part of your checks if you don't earn more than $2,080.01.

For example, suppose that you now are entitled to the minimum payment of $30 a month. In 1957, you can knock out $2,800 of net farm income. In July, 1958 you can request a recalculation of your benefits and start getting bigger checks, effective with January 1, 1958.

If you continue to farm or work. If you expect to earn more than $1,200 this year, you should fill out and mail a card that will be sent to you. Your benefits will be stopped while you are working and you will be sent a form which tells how to have your payments started again when you have stopped working.

At the end of the year, if your earnings have been more than $1,200, you must file an annual report. This report shows your total earnings for the year, the months in which you were employed for wages of more than $80 in employment, and the number of months in which you rendered substantial services in self-employment. Send this report to the Social Security Administration within 3 months and 15 days after the end of the year.

What's ahead for farm prices?

From page 31

$3.25 a hundred through March, 1957—84 percent of parity. Early indications are that dairy supports will be kept the same.

Total demand for dairy products is expected to increase at about the same rate as population increases.

On the supply side, milk production will continue at record high levels—probably increase 3 percent over last year's production. Production increase is coming from more milk per cow, not more cows.

On balance, cash receipts from the sale of milk and cream are expected to be at record high levels. Net profits will not be materially different from the past year.

Supplies of dairy products are not expected to be brought in balance with market demand for several years.

Poultry and eggs. Egg prices through mid-1957 are expected to average 2 to 3 cents lower than during the first half of 1956. Reason is that laying flock numbers are expected to be slightly higher and rate of lay is increasing, adding up to production of eggs about 3 to 5 percent above 1956.

Corn. Price of corn next summer will be governed by how much corn is released by the Commodity Credit Corporation—but will probably be held at near the $1.25 to $1.35 level. However, in the corn-deficit areas and where drouth cut the '56 crop, prices will be 15 to 20 cents higher.

The corn price will be dominated by these factors:

1. The support price of $1.25 on non-compliance corn will tend to keep the price of No. 2 corn from going much below this figure.

2. Farmers who place corn under the $1.50 loan will probably sell on the open market if the price goes above $1.45—which will keep the price from going above this figure.

3. It probably will be the policy of the Commodity Credit Corporation to keep the price of corn relatively low in order to avoid stimulating corn production.

These factors pretty much bracket the price between a low of $1.20 and a high of $1.45, depending on C.C.C. activities (but higher in the corn-deficit areas).

"How could you make such a mistake?"

Oats and barley. Supplies are considerably smaller than last year, but still abundant. Prices are likely to average slightly higher than last year.

Protein feeds. Total protein feed supplies and supplies per animal unit will both be the highest on record for the feeding year. Prices will be somewhat lower than last year, and protein price will be lower in relation with corn price. Therefore, it will be profitable to step up the amount of protein in livestock rations.

Soybeans. Large supplies will probably keep the price from averaging much above the $2.15 loan rate.

Wheat. The price of wheat is largely governed by the $2 loan rate. A strengthening factor will be the fact that the government last September turned over all wheat export business, except barter and grants, to the private trade.

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Plywood silo is built on conventional concrete base with double 2x4 studs spaced 4′ apart. Horizontal members are sawed from 2″ material. Steel straps reinforce the silo

New-type silo— from plywood

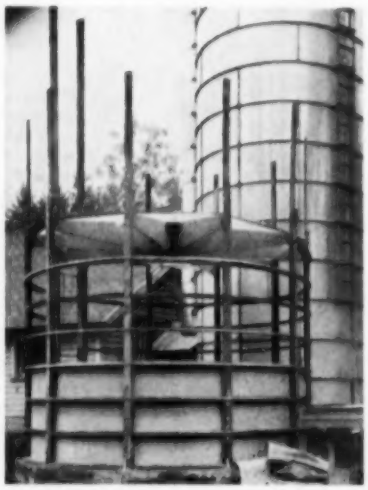
The silos you see here are the result of a plywood silo built 6 years ago by Glen Oslund, Orchards, Washington. He's found the units to be rigid, airtight, acid-resistant, and affected little by changes in temperature. They are designed to handle grass silage and corn silage.

To build a silo of this type, Oslund starts with a conventional concrete base and anchors double 2x4 studs 4′ on center around the perimeter with metal ties. Spanning between the studs are horizontal walers made from 2″ material. After a row of walers is in place, a 3/16″x 1″ steel strap is put around the outside of the walers and anchored to the double 2x6 studs that form the door opening. This opening is formed by threaded 9/16″ rods, covered with pipe as spacers, every 18″ along the height of the silo.

After the framing has been aligned accurately, the silo is ready for the ¼″ A-B exterior plywood lining. Before placing it, the framing is coated with a resorcinol glue for a waterproof bond between plywood and framing.

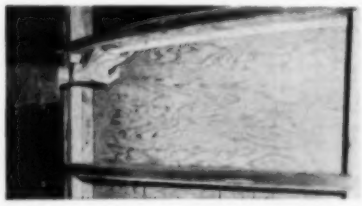
After the silo is started, all work can progress from the inside on a scaffold supported by lag screws driven into the studs near the top of each course of plywood after it is installed.

A coat of aluminum paint finishes the job and makes an attractive-looking silo.



Lining is ¼″, A-B exterior plywood in 4′x8′ sheets. A jig holds sheet at correct curvature for applying. A resorcinol glue is put on the frame and sheets nailed in place. Joints in plywood sheets are staggered.

Horizontal walers are 16″ apart at bottom where pressure is greatest, 24″ near center and 48″ near top. They're all precut.



5-year feeding results with over 25,000 animals show that

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You feed away shipping fever with this fast, economical treatment

At the same time, Terramycin helps animals quickly adjust to feedlot rations so they get off to a good start and gaining faster

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Most recent results with over 25,000 animals show Terramycin cut shipping fever losses over 80%! And reduced the number of cases requiring additional treatment 83%!

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Many feed manufacturers are now bringing this important new advance to you through new 5-day "CONDITIONING FEEDS" containing Terramycin.

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Next time you see your feed dealer, ask him about these new CONDITIONING FEEDS now made possible by Terramycin.

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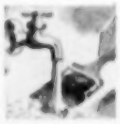

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Tempting main dishes

From page 41

over each circle of dough and top with sausages and American cheese, then Parmesan cheese. Bake in hot oven (425°) 18 to 20 minutes. To serve cut in wedges.

Ham Pizza Topping (For 2 pizzas)

- ½ cup chopped onion
- 3 cloves garlic, minced
- 2 tablespoons salad oil
- 1 1-pound can (2 cups) tomatoes, drained
- 2 6-ounce cans (1½ cups) tomato paste
- 1 teaspoon salt
- ½ teaspoon pepper
- ½ to 1 teaspoon oregano
- 3 cups shredded sharp process cheese
- ½ cup chopped cooked ham

Cook onions and garlic in salad oil till tender, but not brown. Add tomatoes, tomato paste, salt, pepper, and oregano; simmer 15 minutes or till sauce thickens. Pour on top of prepared pizza dough circles. Sprinkle with cheese and ham. Bake in hot oven (425°) about 25 minutes.

Quick Macaroni Dish
(Makes 6 to 8 servings)

- 2 tablespoons fat
- ½ cup chopped onion
- 1 clove garlic, minced
- ⅔ cup diced celery
- 1 12-ounce can luncheon meat, cut in ½-inch cubes
- 1 can condensed cream of tomato soup
- 1¼ cups water
- Dash pepper
- 2 cups hot cooked macaroni
- Grated Parmesan cheese

Melt fat; add onion, garlic, and celery; cook until golden. Add meat and brown lightly. Add soup, water, pepper. Simmer, uncovered, for about 40 minutes. Arrange macaroni on platter. Pour sauce over. Sprinkle with cheese to serve.

Salmon Roll-ups (Makes about 8 servings)

- 2 cups prepared biscuit mix
- ⅔ cup milk
- 1 1-pound can salmon, drained and flaked
- 2 tablespoons sweet pickle relish
- 2 tablespoons chopped onion
- 2 tablespoons lemon juice
- ½ teaspoon salt
- Dash pepper

• • •

- ½ cup chopped onion
- ½ cup chopped green pepper
- 2 tablespoons fat or salad oil
- 1 8-ounce can (1 cup) seasoned tomato sauce
- 2 tablespoons brown sugar

Prepare dough from biscuit mix and milk according to package directions. Roll out into a 9-inch square on a lightly floured surface. Combine the salmon, pickle relish, onion, lemon juice, salt, and pepper; spread evenly over biscuit dough. Roll up as for a jelly roll and seal the edges tightly. Cut into 8 slices and place cut side down on a greased baking sheet. Bake in very hot oven (450°) 10 to 12 minutes. Serve with *Quick Creole Sauce:* Cook onion and green pepper in fat till tender, but not brown. Add tomato sauce

and brown sugar and simmer 10 minutes. Serve with *Salmon Roll-ups*.

Hot Tamale Pie (Makes 6 to 8 servings)

- 2 1-pound cans (4 cups) chili con carne with beans
- 1 12-ounce can (1½ cups) whole kernel corn
- ¾ cup chopped ripe olives
- ½ cup sifted flour
- 1 teaspoon salt
- 1 teaspoon baking powder
- ½ teaspoon soda
- ¾ cup yellow corn meal
- ⅔ cup buttermilk
- 1 beaten egg
- 2 tablespoons salad oil

Combine chili, corn, and olives; heat to boiling. Make *Corn-bread Topping:* Sift together flour, salt, baking powder, and soda; stir in corn meal. Combine buttermilk, egg, and salad oil; add to dry ingredients and stir just enough to mix. Pour hot chili mixture into a greased 2-quart casserole; pour corn-bread batter over top. Bake in hot oven (425°) 20 minutes or till topping is done.

It's an idea!

A clever "telephone corner" in the kitchen or hallway could be built in like this. Hanging telephone, note pad, and overhead light are recessed in paneled wall. Back of wall could be bulletin board.

Rack below holds telephone book, but see what happens to it. The holder pulls down to make a seat.

Photographs: Gaynor

Cooking is her favorite occupation

North Dakota Cook Wins in Her First Competition

There's nothing son Paul enjoys more than inspecting his mother's scrapbook of cooking awards (unless it's enjoying her prize-winning dishes)! Mrs. I. A. Iverslie started her scrapbook last fall—with the two big prize ribbons she won at the North Dakota State Fair.

Mrs. Iverslie of Minot, North Dakota loves to cook, and like so many good midwestern cooks, she uses Fleischmann's Active Dry Yeast. "It's the best ever," she says. "Rises fast—and stays fresh and lively right on my shelf."

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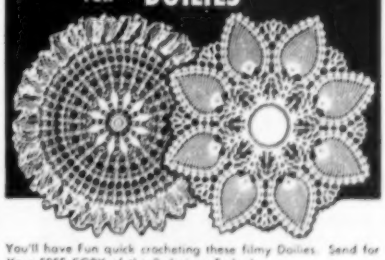

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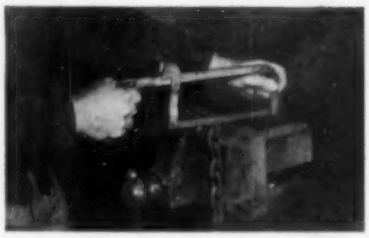
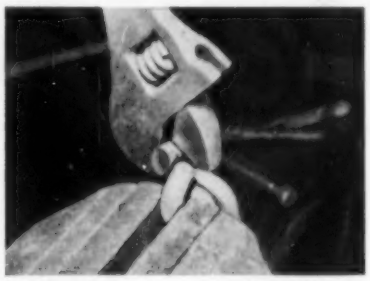
How to repair a

Broken chain



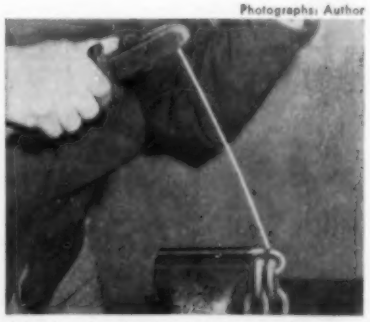
Using a hacksaw, and after clamping the end link of a piece of chain in a vise, cut it as shown. This will be the repair link. You can also purchase repair links if you so choose

After link is sawed, take a punch or rod and pry sideways to open the link. Do not pry back because the link will be more apt to break and difficult to bend back properly



Now grind a bevel on each side of the cut so the closed link will have a V equal in width at the widest point, to 1½ times the diameter of the link material. Hook chain ends in link

Photographs: Author



After bending back link, start to weld. Make a pass across vertex of the V with small rod. Stop, chip off flux, make another pass. Repeat welding build-up.—**Ken Hadenfeldt.**

Veterinary

Pregnant ewes need phosphorus

A 9-year study revealed that ewes fed a ration low in phosphorus (average .1 to .2 percent) had a lamb mortality of 28 percent during the first 2 days after birth; 12 percent when bonemeal was added (average phosphorus .188 percent), and 4 percent when alfalfa hay was fed alone. (Average phosphorus .196 percent.)

The inadequate milk flow on low phosphorus may have contributed to the larger number of deaths.

A "coxylike" poultry disease

Poultry raisers in various parts of the nation are encountering a disease which greatly resembles coccidiosis in symptoms and its effect on birds. However, the ailment is not caused by coccidia, but instead by a microscopic cecal and intestinal worm called Capillaria columbae. Dr. C. I. Angstrom of Cornell University reports that the disease can be controlled in 10 days by adding 10,000 units of vitamin A to every pound of feed.

It was mad itch

Not long ago we stopped at a farm to see a pig that was paralyzed in its hind quarters and was only able to sit up like a dog. The owner suspected some kind of a pelvic injury. The animal was eventually shown to be afflicted with Aujesky's disease, better known as "mad itch." Swine affected with this disease do not always show symptoms of intense itching.

Another cause of "downers"

We recently treated a cow for what the owner thought was milk fever. His belief was logical enough, for the animal had freshened the night before, and after being on her feet shortly afterward, had then gone down and was unable to get up.

However, it was eventually discovered the cow was suffering from "hardware trouble."

While we're on the subject, we might mention that this is only one of a half-dozen entirely different troubles that can cause a cow to go down at calving time.

It wasn't erysipelas

The other day we talked with a farmer who was worried over the way his pigs were doing. Most of the animals were stiff and lame, many had swollen joints, and all were thin and undersize for their age. Chronic erysipelas was suspected at first, but an examination revealed rickets was to blame instead. Most of the pigs improved when irradiated yeast was added to the ration and a mineral mixture made available free choice.

(Advertisement)

Ideas for Planning Your Milking Parlor

How many stalls will you need . . . which type of stall is best for your operation . . . how much time and work can you save? The answers to these and other questions are given here.

by Joe Clay

A good, well-planned milking parlor can be a real time and work saver for dairymen. But, like every other phase of modernization, you can't jump into a milking parlor without planning. These tips on the organization of a modern, efficient parlor can save you money and help avoid problems you might have to face twice a day, 730 times a year.

Eight minutes per cow...

In your new milking parlor, allow about 8 minutes per cow—including feeding time. That means you'll milk 7½ cows an hour per stall, with one operator. Here's how to decide how many stalls you'll need for greater efficiency:

With two stalls, you'll milk 15 cows per hour. Three stalls allow one operator to milk 22.5 cows in an hour. Four stalls and one man can manage 30 milkings per hour. Six stalls need two operators, but you'll milk 45 cows per hour. With two more stalls, plan on 60 cows per hour from two men. That's milking *and* feeding, too.

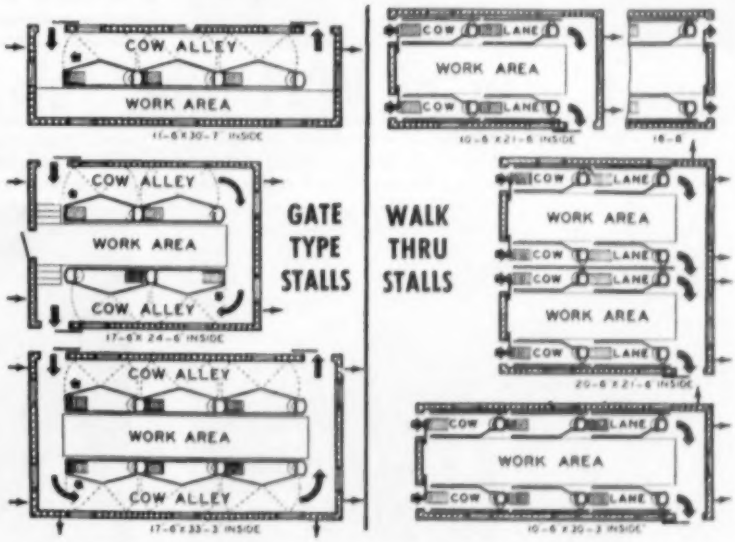
The secret of this time and labor saving is simply that cows bring the milk to you. Then, too, with a milking parlor, the udder is elevated—at the best working level. With levers, feeding mechanism and washing equipment within a few steps, you'll cut hours a day from the milking chore.

With the new Clay milking parlor stalls, easy-to-operate handles control mixing and measuring of feed. You'll feed cows with a flick of your hand.

There is little difference in milking time between gate type and walk-thru installations. Some dairymen prefer gate stalls because of occasional slow milkers. Also, they like to give individual attention to certain cows. Personal opinion, amount of space available, number of operators, and handling of cows are important factors to be studied before deciding on type of stalls.

MILKING PARLOR BULLETIN FREE

The newest, most up-to-date information on planning milking parlors is contained in a new book by Mr. Joe Clay. A copy will be sent to you free on request. Write to: Clay Equipment Corp., 172 Reed St., Cedar Falls, Iowa. Free books also available on Silo Unloaders, Mechanical Feeders, Barn Cleaners and Crop Driers. Please specify which of these free books you want.



Two types of stalls—gate type and walk-thru are shown here. Minimum space requirements are shown on sketches. Arrows show entrance and exit of cows. Pick out the plan that most nearly fits your need. Mark this plan with pen or pencil and mail to Clay at address in box above. We will gladly send you standard floor plan and money-saving ideas. This service costs you nothing.

A farming community of 12,000 finances

The best in rural medicine

Their enthusiasm for adequate medical care financed a modern, well-equipped hospital within a 2-year period. This same enthusiasm has been responsible for bringing in a competent and specialized staff to provide complete medical care

By Mike Bay

Photographs: Pease

In the rural community of Belmond, Iowa, population 2,200, stand a locally financed $250,000 hospital and a privately owned $85,000 clinic. Together they represent a new accomplishment in rural medicine.

And this accomplishment assures the approximately 12,000 persons in this typical corn-hog country community complete medical care. It was Dr. Samuel P. Leinbach who sparked the community's interest in a new hospital by discussing the need before a group of leaders in 1950. The community organized its forces behind a fund drive, and without the help of professional fund raisers had the necessary $250,000 within 2 years' time.

With the hospital testifying to the community's interest in a top-notch medical program, it has been easier to continue to staff a clinic with an outstanding group of medical associates. As a result the community now has access [*Turn to page 74*

More than 200 persons receive major surgical attention each year in this modern, well-equipped air-conditioned operating room. Last year, machinery accidents hospitalized 48 farm people, making reconstructive surgery a necessary specialization for surgeons

With the exception of a $36,000 bond issue approved by the 2,200 residents of Belmond, the entire $250,000 construction cost of the 26-bed hospital represents the thousands of contributions from a community wanting the best in rural medical care

Familiar with inadequacies of old hospital, having spent several weeks there—and worried about possibilities of fire—Chester P. Luick contributed to construction cost and then placed a 410-acre farm in trust to pay for future hospital improvements

*Trade-mark of Monsanto Chemical Company

You get bigger yields with LION in your fields

LION BRAND AMMONIUM NITRATE CONTAINS TWO KINDS OF NITROGEN

FOR MORE PRODUCTION, Lion Ammonium Nitrate contains TWO kinds of plant nitrogen. *Quick-acting* nitrate nitrogen that gets crops started fast . . . and *long-lasting* ammonia nitrogen that resists leaching and feeds your crops steadily during the important growing months that follow.

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MADE BY WORLD'S LARGEST. Lion Brand Ammonium Nitrate is made by Monsanto Chemical Company, world's largest producer of prilled ammonium nitrate—and *your* most reliable source of *low-cost* nitrogen. Save money. Buy *Lion!*

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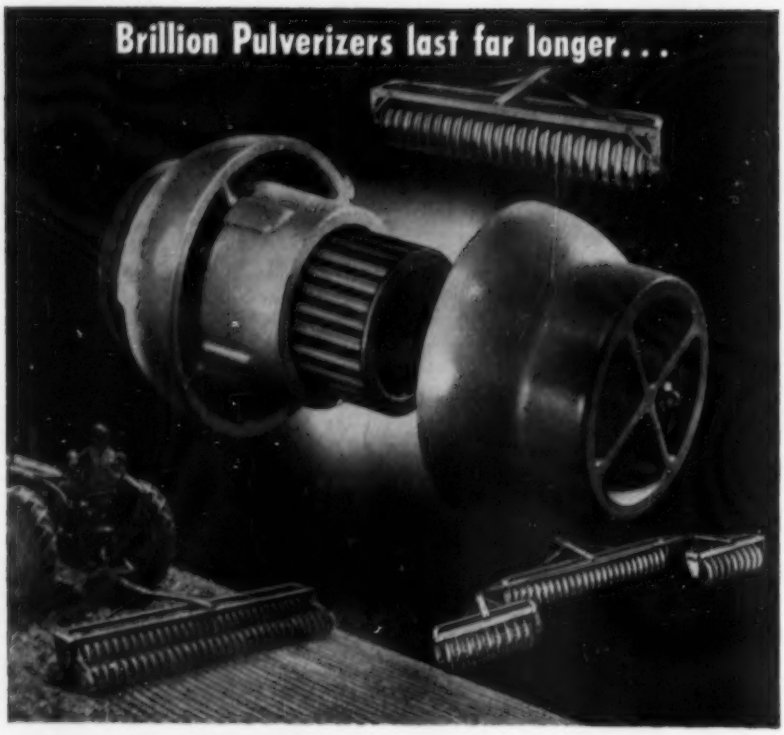
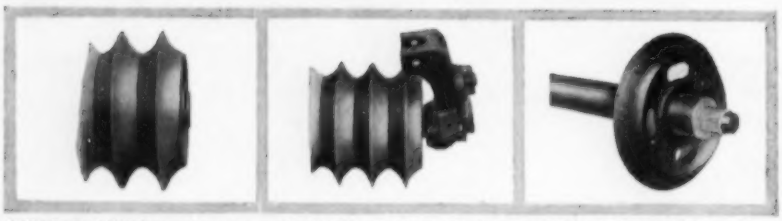
MONSANTO CHEMICAL COMPANY • ST. LOUIS 1, MISSOURI



Sealed Brillion Bearings defy dust and wear



LARGE 18" WHEELS — do a better crushing job on any type of soil . . . are the strongest by test of any pulverizer wheel on the market.

FLOATING ACTION IN ALL DIRECTIONS — ball and socket construction lets the axle float . . . keeps it level at all times.

HEAVY 4" PIPE AXLE — provides greater weight and strength to meet today's fast tractor speeds. Only Brillion has it.

Exclusive features make Brillion your best pulverizer buy

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What's more, you'll benefit from the LG Pulverizer's exclusive floating action, large 18" diameter wheels and heavy 4" pipe axles. You get unmatched clod-crushing power — a weight of over 130 pounds per rolling foot.

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Clip and mail to Brillion Iron Works, Inc., Dept. P-1-1, Brillion, Wisconsin.
Send me complete information on the Brillion Implements I've checked.

☐ Pulverizers ☐ Pulvi-Mulchers ☐ Rotary Hoes ☐ I am a student

Write your name and address on the margin.

The best in rural medicine

From page 72

to the skills of a competent surgeon, an experienced internist, a visiting radiologist, and two able general practitioners.

When the funds were raised, the contributors numbered in the thousands with donations ranging from 50 cents to $15,000. One retired farmer, thinking in terms of a progressive medical program, placed a 410-acre farm in trust, the profits to be used to constantly improve the hospital service. Already, purchases by the trust include air conditioning for the operating room, an incubator for the nursery, spectrophotometer for making blood analyses, equipment for modernizing the X-ray department, and other equipment for nursing care.

Financial help came from unexpected places. Two years after the hospital had been completed, a registered letter was received in the mail. It contained bonds valued at $9,759 and a personal check bringing the total to $10,000.

The sender, Robert W. Rowen, Jr., 87, had left Belmond at the age of 20. Since

Spectrophotometer with flame attachment determines whether delicate balance of elements in the blood is being maintained. Profits from the trust farm paid $1,400 cost

One of 300 members of a "walking blood bank," farmer Lester Buseman gives blood for a neighbor. These donors, on call day and night, ensure a supply of all blood types

moving to California, he had continued to subscribe to the local paper. Having read of the project, he wanted to contribute to the hospital. His contribution paid for constructing an addition to the hospital which serves as chapel for family groups, meeting room, and emergency-patient overflow.

Patients drawn in from an area extending into four counties kept the hospital operating at 64 percent of full capacity during 1955. During the year, 275 babies were delivered at the Belmond Community Hospital and the fatality rate was well below the state average—10.9 per 1,000 births as compared to 14.5 average for the state.

Every attempt has been made to match the modern facilities provided by the community with the best skilled professional staff available. Films taken by the updated X-ray equipment are read by a visiting radiologist from a city 40 miles away. He also does fluoroscopes. These reports are tape recorded and placed on file.

Mrs. Helen McNulty, medical technician, is capable of conducting nearly the whole range of laboratory tests with the equipment available at the hospital and the clinic.

Another phase of the hospital's operation which reveals community's interest in their health program is the "walking blood bank." More than 300 members, many who gave to the construction fund, report on call to the hospital to donate blood. Lester Buseman, who farms east of Belmond, is representative of this group who feel a continuing obligation to the hospital. His rare blood type, "B-negative," has caused him to leave home in the middle of the night for the hospital to give blood to someone he may not know. But he does know that he or his family will not lack for blood if an emergency occurs in his home.

Because a growing desire was stimulated, the Belmond community established a rural medical standard surpassing that found in many small town communities. Their desire was strong enough to generate enthusiasm and a willingness to contribute time and money. If your community has these same qualities, then a better medical program probably is within your reach.

Self-sufficient

Some people find it difficult
Sometimes, to know just what is right,
And they consider, and consult
With other minds in search of light.
But not Aunt Harriet. She had
One certain rule, her whole life long,
For quickly knowing good from bad,
And black from white, and right from wrong.
Whatever she didn't want to do
Was what she should. She did it, too.

—**Jane Merchant**

"3 RILCO buildings now... and I'd build RILCO again"

Says LAWRENCE BRUGGEMAN
St. Ansgar, Iowa

*Price based on first quality materials, and will vary according to locality.

"It's Rilco for me . . . every time I build," Mr. Bruggeman declares. "My machine shed, barn and chicken house are all Rilco construction . . . and if I build again, you can bet it'll be Rilco!" Mr. Bruggeman feels the sturdy construction of his Type 55 Machine Shed has given him a building that will "keep its shape . . . really stand up" in high winds and under heavy snow loads. The erected cost was actually less than most so-called economy type structures.

Before deciding on your next farm building, get all the facts on Rilco . . . then compare. You'll find the erected cost of a Rilco building is amazingly low. Rilco glued laminated rafters go up in hours instead of days. You save on labor . . . you get a stronger, better-looking, longer-lasting structure.

Rilco rafters are shaped and drilled at the factory . . . delivered ready for erection with all connection hardware furnished. They're made of selected, kiln-dried, West Coast Douglas Fir, permanently bonded together with waterproof glue.

*Price based on first quality materials, and will vary according to locality.

Shopping for a barn? Take a look at Mr. Bruggeman's Type 32 Barn. He says it gives him plenty of clear, unobstructed working space . . . with no posts to get in the way. Rilco construction will earn your stamp of approval, too, when you see it . . . price it . . . compare it with any type of construction. Get all the facts on Rilco from your local lumber dealer or mail coupon below. *Ask the Man Who's Built One!*

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CLEAN, FIRE-RESISTANT cow barn interior at the Central Farm, Dept. of Mental Hygiene, Clarksville, Md., has ceiling lined with APAC Sheets. It is roofed with K&M Asbestos-Cement #4 Surf Green Roofing Shingles.

K&M APAC Asbestos-Cement Sheets

Put 'em up once and stop worrying about fire-protection for farm buildings. K&M APAC Sheets can be easily cleaned, and painting to preserve them is unnecessary (though they do take paint beautifully if you ever want to change from their pleasant gray color). They're large and easy to apply. Made of mineral asbestos and portland cement, two of Nature's most durable materials, they're also immune to vermin attack. Use APAC Sheets indoors or out, on all farm buildings, for modern protection that lasts for good!

ASK YOUR BUILDING MATERIALS DEALER ABOUT K & M APAC SHEETS, OR WRITE FOR INFORMATION.

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NEW TENANT HOUSE!

2nd FAMILY HOUSE

Vacation COTTAGE

Marathon MOBILE HOMES

Really luxurious living at a fraction of the cost of a new permanent building—tenant house, second family home or vacation home. Models include KING Size (10' wide) 41', 48', and 49' long . . . other models from 29' to 49' . . . 1, 2, and 3 bedroom . . . the best in everything. The surprise is in the price. Write for details today. . . . Dept. D

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Stratford, Wisconsin

"Materials Handling" is the new 35 mm *Successful Farming* filmstrip about the newest farm science. Film shows how farmers can save time and labor by using four basic principles in handling such materials as hay, silage, and water in the farm *yard*. Film, printed commentary, $4.95. Send order to *Successful Farming*, Des Moines 3, Iowa.

MAKE UP TO $25 DAY

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Now you can quickly sharpen farm discs in a farmer's **own yard or shop.** New portable Foley Disc Sharpener jacks up harrow, rotates discs as it grinds them—takes only 1 or 2 minutes per blade. Saves farmers time and trouble—no dismantling or hauling to town—and you can make up to $25 a day. Foley equipment easily carried in car trunk.

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Recognize him by this emblem

Ask him to show you how our SOILS BOOK and future articles in *Successful Farming* will keep you informed on the latest developments in soil care.

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Bitter coffee, cloudy tea, unappetizing foods, all these — plus rust-spotted fabrics, clogged water pipes, heaters, boilers, and metallic-tasting drinking water — are the DAILY COSTS of rust in the water supply. These can be eliminated with a DIAMOND IRON Removal Filter. Write:

OSHKOSH FILTER AND SOFTENER CO.
Oshkosh Wisconsin

All around

Here are tips to help you save time, steps, space, and work

● When buying buttons for a garment I've made, I carry a piece of the fabric in which I've cut a slash the size the buttonhole will be. Slipping this over one button on a card, I know at a glance how the buttons I am considering will look on my completed garment.—*Mrs. Robert C. Eff, Indiana.*

● For uniform stitches when I crochet an edge around a piece of material, I first run my sewing machine around the edge using a coarse needle and no thread. Machine should be set for long stitches. The needle marks spaces for crochet stitches and punches holes in material. Then it is easy to insert my crochet needle.—*Mrs. George Burling, Oklahoma.*

● When baking chocolate cakes, I dust greased cake pans with cocoa instead of flour. This prevents dark cake from being spotted with white on bottom.—*Greta D. Webb, Missouri.*

● Your children may still enjoy those bright covers of their books when the insides are

torn up. Cut covers into jigsaw puzzles, put in separate boxes. They're like a new toy.—*Ann Zawistowski, Minnesota.*

● I've found my children's toy whistles handy helpers. I use them to summon my family to meals or whenever needed. They can be heard some distance.—*Mrs. Linden Bockmann, Nebraska.*

● In my recipe card file I keep a small sheet of waxed paper or transparent plastic to put over cards when in use. This keeps the card clean and still I can read it easily. Any spills can be wiped off quickly; card stays clean.—*Mrs. Charles Gleason, Nebraska.*

● A thermometer outside your kitchen storm window is fine except when the window gets frosty. Place cellophane tape on inside of the storm window in front of thermometer. It keeps frost from forming.—*Mrs. C. D. Kitchell, Illinois.*

the house®

● Handy spice-can opener: Keep a coffee can key with cooking spices for pushing open sliding tops of spice cans.—*Bertha Lever, Iowa.*

● Before washing a blouse or dress with permanently attached shoulder pads, run several rows of basting through the pads to prevent their lumping.—*Sandra Robson, Missouri.*

● You'll find a ballpoint pen which has gone dry is ideal for tracing embroidery transfers. Keeps pattern clean and won't tear it as pencils do.—*Violet Wagner, Montana.*

Photographs: Stanley

● A quick, neat way to grease cake pans or your casseroles is to use a waxed paper sandwich bag. You could store in refrigerator in plastic bag for re-use.—*Alice Pheeney, Iowa.*

● You won't get paste on your important papers or the table if you use an old magazine to paste on. You simply turn the pages as you paste, and you always have a clean working surface.—*Mrs. Herbert Lippman, Michigan.*

● To dry a sweater faster, block to size on a large turkish towel. Place a second towel on top and fasten together with spring-type clothespins, being sure to catch the sweater. Hang by top and bottom of towels on parallel clotheslines. Sweater dries fast yet retains shape blocked on the towel.—*Mrs. A. L. Anderson, Jr., Colorado.*

● When window shades get faded, remove them from rollers, make a hem in the fresh end of shade and tack soiled end to the roller.—*Mrs. Elmo Tyrel, Missouri.*

● Forget to take that loaf of bread out of the freezer in time to thaw? Just drop frozen slices into your toaster with a light setting. Slices will be nice and soft but not toasted.—*Mrs. M. C. Harris, Iowa.*

Successful Farming pays $5 for each original helpful hint published. We do not accept previously published suggestions or return unused ones.—Editors

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in homes beyond city water mains . . . with a Myers Pump

For a tingling shower bath—and for water pressure aplenty at every faucet—depend on an economical Myers Ejecto® Water System. The Ejecto® has just one moving part, so there's a minimum of wear and even less noise. The full line of Myers high quality water systems is sold only by authorized, experienced Myers dealers. Call the one nearest you today.

Myers® Water systems

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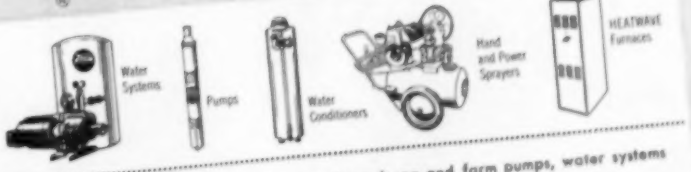

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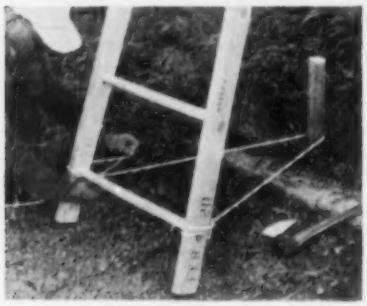
A 4-point footing is essential if you are to work on a stepladder with any degree of safety. When working over steps or other unlevel spots, you can level ladder by firmly C-clamping sturdy boards to legs which act as extenders

To assure yourself good balance, hang paint bucket on the ladder and free your hand for maintaining a secure position on the ladder. Several devices such as this can be bought or you can make a good hook by bending a length of stiff, strong wire into right position



Not having base of ladder firmly anchored is the cause of many falls. To prevent ladder from skidding, anchor its base to a stake. Slant stake away from the ladder when driving it firmly into the ground. When tying, place rope under rung to prevent slippage

Photographs: Stanley

Ladder safety

10 ways to prevent a fall

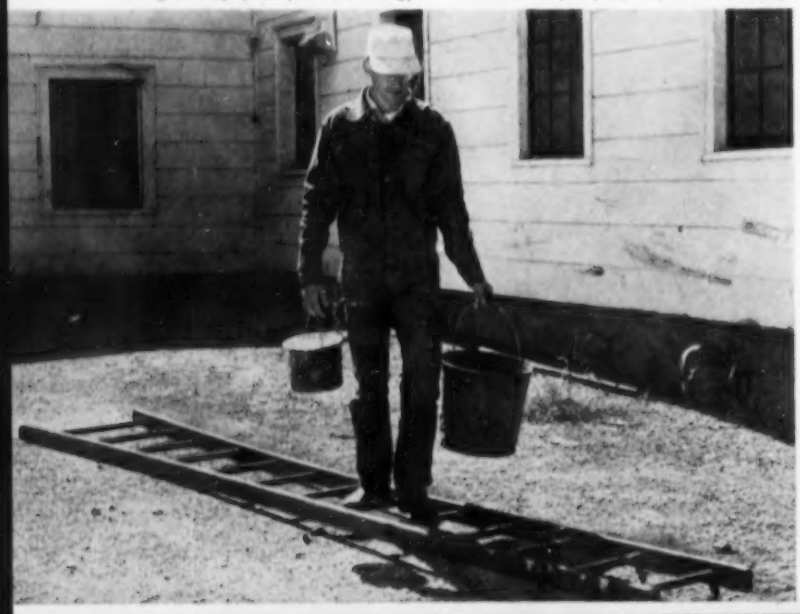
By Mike O'Hara

Falls continue to be the leading source of injuries to farm people. Failure to follow safe methods of climbing and using a ladder causes many preventable injuries. How many of these safety measures do you practice? ***(More pictures on page 80)***

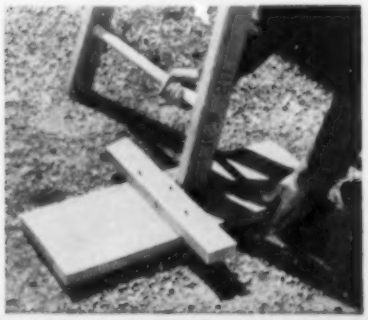
Before climbing the ladder, make sure it is properly positioned. A general rule to follow in determining best distance for greatest strength and safety is to set bottom of ladder out away from the foundation a distance equal to one-fourth of its extended height.

A ladder extended 12′ should be about 3′ from the building at its base. Too great an angle may cause the ladder to break; too small an angle may cause ladder to tip over backward. For positioning, step off distance.

Test strength of your ladder with it lying on ground. Carry as much weight as you would normally have under actual working conditions. A rotten rung can give way quickly. Before using, check ladder for splits, dry rot, and loose rungs



Be sure your ladder is level. When the ladder must be placed on an uneven surface, use a block such as this to give it a firm, level base. Nail a board crossways of the leveling board to prevent the ladder from slipping



Reduce Manure-Handling Time and Work...

Save Money on Upkeep Costs

Move Up to a Modern, Fast-Working JOHN DEERE LOADER and SPREADER

Today's modern John Deere Loaders and Spreaders are built for today's busy farmer. They are fast-working for today's bigger work-load—they are easy to use in keeping with today's standard of doing more work faster and easier. And, they are ruggedly built for dependable operation at low cost.

New Loader Mounts in 5 Minutes. Consider the John Deere No. 45 Loader—the loader that goes on or off any John Deere Tricycle Tractor in five minutes or less. The No. 45 gives you a host of time-saving, work-saving advantages. It has an easy-filling bucket with tapered, spring-steel teeth. It has the famous John Deere double-cylinder hydraulic system that raises big, full loads quickly—that holds securely at any height—that lowers in seconds. And, the 45 is priced to fit your pocketbook.

70-, 95-, and 120-Bushel Spreaders. John Deere Spreaders—the 70-Bushel Model "L," the 95-Bushel Model "R," and the 120-Bushel, PTO-Driven Model "N"—working efficiently at 6 mph, cut spreading time to an absolute minimum.

And, they'll hold up longer at fast spreading speeds because they are extra-tough from hitch to beaters. High-grade bearings in wheels and beaters . . . combination wood and steel construction . . . these are only a few of the reasons you get more for your money when you choose a John Deere Spreader.

POWER STEERING Takes All the Hard Work Out of Loading

The 45 Loader and a John Deere Power-Steering Tractor make an unbeatable loading team. Power steering, plus the ease of operating the No. 45 Loader, takes all the hard work out of manure-handling. Let your John Deere dealer give you a free demonstration on your farm.

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- Model "L" 70-Bushel Spreader ☐
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MUD, SNOW, OR SAND—STUDEBAKER OUT-TRACTIONS ALL OTHER TRUCKS!

Transtar's Twin Traction option for ½-tonners pulls you through where others get stuck

Don't spin your wheels! Studebaker Transtars, first with Twin Traction, automatically gear your engine's power to the "grip" of each rear wheel—give you safer, surer "go-ahead" off the road or on slippery streets. Another reason why Studebaker's 80 Transtar models up to 19,000 lbs. G.V.W. haul any payload faster, easier, more economically than ever before!

LET YOUR STUDEBAKER DEALER PROVE IT TO YOU NOW!

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1. Better economy—long life, low operating costs, easy maintenance add up to more profit per mile.
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3. Thriftier power—proved V8's and Sixes by America's top Economy Run winners!
4. Easier control—cross link variable ratio steering, better braking for safer, faster runs.
5. Smoother ride—two-stage springs, hydraulic shock absorbers as standard equipment on light-duty models.
6. Better deal—from break-in to trade-in, starting with low, low prices!

Studebaker-Packard
CORPORATION

Where pride of Workmanship comes first!

Ladder safety

From page 78

Keep hand free for climbing by using a rope to pull up bucket containing necessary tools and material. An upper rung serves as a pulley and rope is tied securely to leg of ladder when tools reach a proper working height

Be sure your ladder is the right length. The ladder in use above is the right height since it permits the user to keep both hands on the ladder and step over safely onto roof. The ladder at right is of a dangerous length

At times you can't avoid using a ladder on a slippery surface such as concrete. To prevent this skidding problem, give your ladder more traction by nailing a piece of old automobile tire over the ends of ladder's legs

Laughing at Life

Dose of Own Medicine

Doctor: "Did you tell that young man I think he's no good and would make you a worthless husband?"

Daughter: "Yes, but he wasn't discouraged. He said it wasn't the first time you had made a completely wrong diagnosis."

A Lucky Bird?

The occasion called for a party lunch and cage honoring Pershing on his birthday.—Yankton (South Dakota) Press.

Never the Twain

Smith ran across an old friend of years back and was surprised to learn the gentleman was still a bachelor.

"How come you never married?" he asked.

"I was always looking for the perfect girl," was the reply.

"Didn't you ever find her?"

"Oh yes, I did—but she was looking for the ideal man."

One-way Trip

Sign on a chicken coop on a farm in southern Wisconsin: "Warning! Anyone found prowling around this chicken coop during the night will be found there in the morning."

Occasionally True

Two schoolboys were arguing about the merits of their fathers.

"My dad is a doctor," asserted one, "and I can be sick for nothing."

"That's nothing," replied the other. "My dad is a preacher and I can be good for nothing."

Can't Be Done Now

Wise old Solomon—he amassed a fortune without being investigated by Congress or the Revenue Bureau.—Herbert Victor.

"If you don't like the way I'm doing it, you can grease it yourself."

The time you apply Nitrogen can be as important as rate of application. Read why more and more farmers are now top-dressing early in the Spring with Spencer "Mr. N" Ammonium Nitrate Fertilizer.

Fertilizer dollars buy more when you top-dress early:

It costs you no more to apply now, and your returns may be greater!

Whether or not you plan to participate in this year's soil bank program, you still want to get maximum yield from your small grains. So, you're probably planning to use a Nitrogen fertilizer this year.

On wheat, for example, leading agronomists tell us that 40 pounds of Nitrogen has produced an average of 10 extra bushels per acre!

And, the earlier the application, the more your return should be. You see, young plants use Nitrogen to build bushels, while older plants use Nitrogen to build protein.

Early Spring is also a mighty good time to top-dress pasture with Spencer "Mr. N". That's because with early application, you can expect two weeks earlier grazing, plus two to three times more grass per acre. Think how that could cut your feed bills!

Now, if you also grow corn on your farm, don't forget that Spring plow-down of Spencer "Mr. N" is the easy way to get bigger corn yields—even in dry years.

Plowing down "Mr. N" can actually help corn survive an extra ten days to two weeks in case of drought. In addition, the "Mr. N" you plow down helps speed up decomposition of corn stubble to help release *extra* plant food for this year's crop.

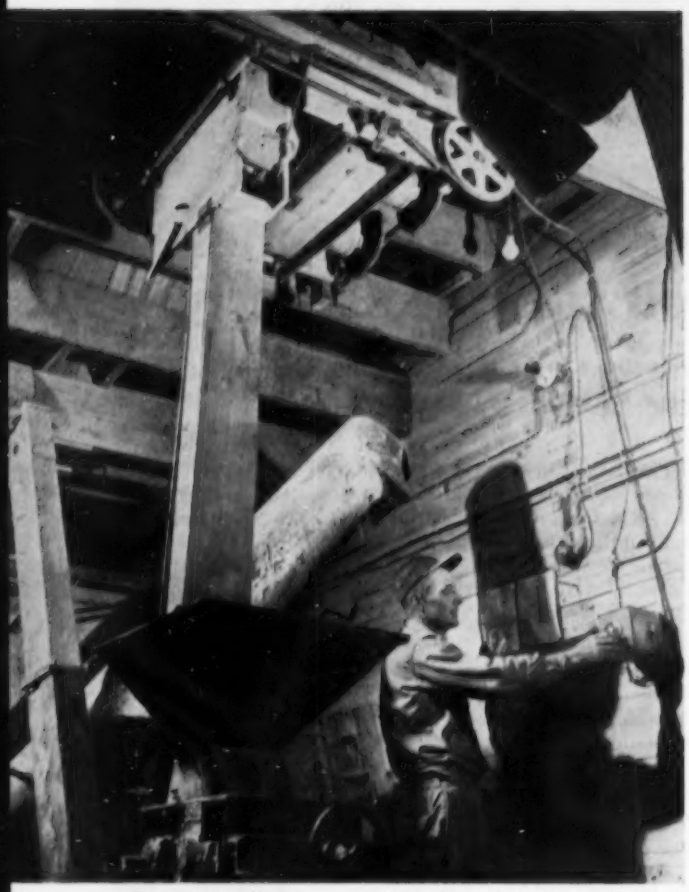
It's easy to see why Spencer "Mr. N" is the Midwest's largest-selling Ammonium Nitrate. "Mr. N" comes in round, uniform prills that won't cake, won't clog your spreader. Packed in polyethylene-lined bags, Spencer "Mr. N" is the first Nitrogen fertilizer guaranteed to flow freely even after a full year's storage under proper conditions.

This year, don't wait until it's too late to get all the extra growth help "Mr N" can give you. Go after those profitable extra yields and that money-making extra grazing by applying Spencer "Mr. N" early. See your dealer this week for Spencer "Mr. N" Ammonium Nitrate.

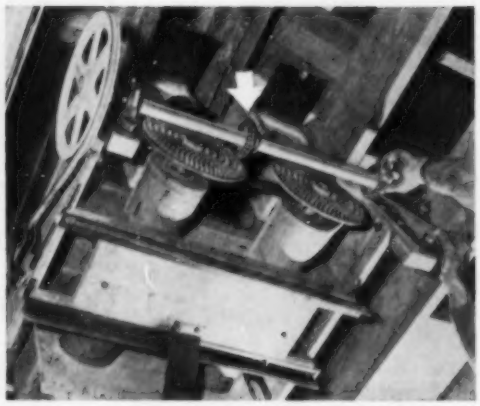
Get all the Nitrogen you pay for! Use Spencer "Mr. N" Ammonium Nitrate Fertilizer. You can see it, feel it, and it's *guaranteed* a full 33.5% Nitrogen. No waiting for custom application—apply it with your own equipment. Spencer Chemical Company, Dwight Bldg., Kansas City 5, Mo., (ADVT.)

"How I solved my grain-metering problem"

By John J. Gannon
Jasper County, Iowa, farmer



Our metering device is suspended underneath the oats and shelled-corn bins. An auger for each bin takes out regulated amounts of each grain, and the total grinding time is regulated by the time clock. Settings for rations are on wall. Grinder empties into wagon



Speed of 2-6" augers is regulated by setting pinion gears at any one of the 6 positions on the sunflower gears. The shaft can be lifted at one end to allow the gears to slide along shaft. Augers are from a combine and picker-sheller

Photographs: Pease

We find our grain contains considerable amounts of iron in the form of wire, steel shavings. To remove this, I used a horseshoe magnet from a tractor magneto above each auger. I had them remagnetized to give them needed strength

We had been having trouble in measuring the correct amount of corn, oats, and protein to make different protein rations for swine, dairy cattle, and beef cattle. I got the idea shown in these photographs to meter grains so we could make, say, 11-, 12-, 12½-, or 14-percent total protein rations. We save 30 minutes a load of dairy ration.

By setting the pinion gears and the timer according to the number of bags of protein supplement I spread around in the unloading wagon as the ration is ground, I have a system that's simple, yet nearly automatic. An example is the 13½-percent total protein dairy ration. I set the timer for 10 minutes and with the corn gear on "1" and the oats gear on "2", I get 1,250 pounds corn and 990 pounds oats. I toss in 200 pounds bran, 200 pounds soybean oil meal, and 200 pounds linseed oil meal.

In case the metering device puts out more than the grinder can handle, a hinged "flapper" and mercury switch at top of chute operates by grain pressure, shuts off the ¼-hp auger motor and timer. When grinder clears, motor starts

A new alfalfa variety

Tests in many states indicate that a new variety of alfalfa called Du Puits (pronounced Doo Pwee) could become one of the more important short-rotation alfalfa varieties.

Higher Yields are the big difference between Du Puits and other varieties. Du Puits has been the top yielder or among the highest yielding alfalfa varieties in many tests. Yield differences have often been substantial. In one series of tests, for example, the extra hay produced by Du Puits was worth $13.20 more per acre than the next highest-yielding variety and $20.00 more per acre than the third highest-yielding variety. Hay was valued at $30.00 per ton.

DU PUITS FEATURES

Longer Growing Period: Du Puits alfalfa starts growth faster in the spring and blooms about a week earlier than other northern-adapted varieties. Grows later into the fall, too.

Exceptional Seedling Vigor: In many tests it has demonstrated superior ability to establish good stands even when competition is severe. Because of its seedling vigor, stand failures due to competition from small grain companion crop or from weeds may be fewer.

Recovers Quicker: Recovers faster after cutting than other varieties of similar adaptation. This feature, together with Du Puits' longer growing season, often means one extra cutting from Du Puits.

More Resistance to Common Leafspot: In several State Agricultural Experiment Station trials Du Puits has been specially singled out for resistance to common leafspot. Because of its resistance Du Puits maintains deep green color, holds leaves better and produces better quality hay than susceptible varieties.

Winter-Hardiness: Du Puits has shown satisfactory winter-hardiness in the central Cornbelt states and as far North as New York state in the East. Trials indicate that it approaches Ranger in resistance to winter injury.

Short-Rotation Variety: Where adapted, Du Puits is ideally suited for one to three year stands where exceptionally high yields of quality forage are desired. Like Narragansett and Atlantic, it is not wilt-resistant. In many areas it will provide one extra cutting per season.

Certified Du Puits alfalfa seed is available from your local seed store. This year—get more from every acre with Certified Du Puits Alfalfa Seed.

The information presented here is based on a consensus of trial results. It may or may not apply to your state. We therefore urge you to check with your County Agent or State Agricultural Experiment Station for results in your area.

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They wouldn't give up 4-H

And since making this vow nearly 24 years ago and organizing to keep their group together, they have been a vital force in furthering 4-H work

Photograph: Peese

By Holly Miller

"The 4-H Progressive Club has been a definite stimulus to 4-H work in the county and particularly in Sycamore Township," says Mr. Carl Bibbee, county agent of Hamilton County, Ohio, for 32 years.

"The club has a definite place in the lives of its members. Any community would be the richer in the formation of similar clubs."

Since its origin 23 years ago, the Progressive Club has been helping organize 4-H clubs. It now provides 10 leaders and 19 of their children are active 4-H members taking a full share of honors. The Progressors supply other workers—Mr. and Mrs. Dan O'Sullivan and their oldest son, Danny, regularly have served as counselors at 4-H camp.

One member of the club is a 4-H camp trustee, another is on the county 4-H Executive Board and two are on the county Extension Advisory Board. The Club's members encourage support—morally and financially—and boost 4-H in every way you could mention. But undoubtedly another strong reason they have stayed together for so many years is that they have so much fun.

The Club's president, Mrs. Ruth Gorman, says their success hinges on four

They LAY Even Better

Six to 12 eggs better than even last year's great Hy-Line layers. And *last year's* outlaid commercial Leghorns by 2 to 3 dozen eggs! Add the new, stepped-up production to the previous Hy-Line layers advantage over other chickens. See the dollars and cents results. Big, high-quality eggs too—the kind that make people eat more eggs.

They PAY Even Better

You cannot afford to pass up the extra flock income these efficient, highly-bred, egg-producers can give you. Tests show they produce a case of eggs on 15 to 30 pounds less feed than do lesser birds. Up to a pound less feed per dozen! Figuring eggs at only 35c per dozen, these new Hy-Line layers can earn $85 to $140 extra income *per 100 layers.*

Order them from your local Hy-Line distributor or salesman . . . or write to address below for further information.

HY-LINE POULTRY FARMS

A Department of PIONEER HI-BRED CORN COMPANY

Des Moines 9, Iowa

*Trademark of Pioneer Hi-Bred Corn Co.

←

Social get-togethers are designed to provide fun for grownups and youngsters alike. Here charter member Miss Irene Froehlich, now the housemother at a children's home where this party is being held, walks the distant line

points: "One—we all have a 4-H background and a mutual interest in furthering 4-H work. Two—the club is run democratically. Officers serve only 2 years. Work is arranged so everyone serves on one committee during the year.

"Three—we have adapted our programs to our changing needs. When we were younger, we went on weekend trips. Then the war limited our social activities although we carried on as a club without most of the men. Now we plan our affairs to include the children. Four—membership is limited to this township. This keeps it close geographically."

Mrs. David Carpenter, a relatively new member, says, "It's the nicest club we've ever belonged to. I think the secret is the organization. It's all set up at the beginning of the year—you know just which month you're to help put out the Searchlight and so on. It isn't like a lot of clubs where just a few do the work and run things."

Membership in the Progressive Club is a valued thing and not easy to come by unless you were lucky enough to have married one of the charter members, thereby granting you automatic membership. To be qualified you must live in Sycamore Township, have 4 years of 4-H work or be a 4-H leader. There is a year's tryout membership before you're finally voted in. There are 38 active members, 13 inactives (who usually get to the banquet and some meetings but for various reasons can't be active), 5 honorary members and 67 second-generation Progressors, who have a definite place in the activities of the club.

Members take turns putting out a several-page mimeographed paper called the Searchlight. A feature of the club since its beginning, the newsy paper has done much to weld group together through the years

Which dog is the grandfather?

These Gaines-fed German Shepherds are living proof that Homogenized Gaines Meal can help your dog enjoy

A LONGER PRIME OF LIFE!

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Which dog is the grandfather? It's 9-year-old *Pirate* (left), who's still as lively as grandson *Drum* (right). Both dogs were raised on Homogenized Gaines Meal. Why not start *your* dog on his way to *a longer prime of life*—get Homogenized Gaines Meal today!

nourishes every inch of your dog

A Product of General Foods

It's wonderful the way Chewing-Gum Laxative acts chiefly to

REMOVE WASTE -NOT GOOD FOOD

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FEEN-A-MINT is different because you chew it. It's different, too, because it removes mostly waste—not good food! FEEN-A-MINT does not work in the stomach, where your food is being digested. That's why it does not take away a lot of the good food you need for energy.

Doctors know that FEEN-A-MINT works chiefly in the lower bowel . . . removes mostly waste, not good food!

So to feel like a million, do as millions do. Chew delicious FEEN-A-MINT . . . and feel full of life and energy! Get FEEN-A-MINT today. 16 tablets, 35¢—also small and economy sizes.

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THE CHEWING-GUM LAXATIVE

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How to hold down the cost of

Raising replacement pullets

The big cost of replacement pullets is not the cost of the chick as many suspect, but feed and labor. Here are timely tips on how you can hold down replacement costs

Good management can go farther than any other factor in reducing the price tag on replacement pullets. At least that's the way it looks after studying the costs of raising replacement pullets on seven Michigan poultry farms.

Growers kept uniform and accurate records in growing their replacement pullets. *Cost of raising replacement pullets ranged from a low of $1.89 per pullet to a high of $4.06, a difference of $2.17.*

In looking over the studies on different farm costs to raise replacement pullets, the higher costs could have been reduced by following approved rearing practices and by putting into use some of the recommended skills.

Actual total costs of raising pullets on these 7 farms varied from $1.95 to $4.16 per pullet. But, after subtracting the value of products sold during the first 24 weeks, we get the net-per-pullet cost range of $1.89 to $4.06. The high and low cost flock are shown in the chart below.

Size of flocks raised ranged from 70 to 1,700 birds. But it's not just the big flock operators that kept costs down. One flock of only 375 pullets housed was only 9 cents higher than the lowest cost.

The lowest-cost producer had over 1,700 replacements. Highest-cost replacements were with a flock of 242 housed pullets. This producer lost more than half of his chicks.

Many factors affect the cost, but the ones which stand out are feeding efficiency, labor efficiency, mortality, and initial chick cost.

Feed was the highest single cost, representing on an average of all 7 farms 46.4 percent of the total cost. Next was labor at 21.3 percent, and chick cost at 19.6 percent. Combined, these three costs total 87.3 percent of all costs.

Now let's take a look at individual items on different farms. Feed consumption per pullet housed ranged from 25 to 45.9 pounds, or a range in feed cost of $.95 to $2.16.

Mortality, of course, will run up costs. Here again, the differences are very wide. Lowest mortality rate was 1.9 percent and the highest 46.3 percent.

Another place where cost varied was the amount that farmers paid for their chicks. The range here went from a low of 27.4 cents to 79.2 cents per bird. Although on the average the chick cost represented 19.6 percent of the total cost, it does not follow that the lowest-priced chick will raise the lowest-cost pullet.

Labor also ranged from a low of 22 cents a bird to a high of $1.17. Generally speaking, the larger the flock the lower the labor costs.

So, maybe we should take a closer look at management—it's still our greatest area of cutting production cost.

Expense, income, and net cost of rearing pullets to 24 weeks

	Farm 1	Farm 2
CHARGES (dollars per pullet raised)		
CHICKS	.571	.554
FEED	1.810	.953
LABOR	1.160	.221
FUEL AND LIGHTS	.248	.082
BUILDING AND EQUIPMENT	.108	.034
MISCELLANEOUS	.068	.014
OVERHEAD	.198	.093
TOTAL CHARGES	4.163	1.951
CREDITS (dollars per pullets raised)		
SALE OF EGGS, MEAT	.072	.049
HOME USE	.015	.014
OTHER	.012	
TOTAL CREDITS	.099	.063
NET COST	4.064	1.888

"...my gains on 'Stilbosol' feeds are 4¢ per pound cheaper...

That's the difference between profit and loss these days!"

As told to Eugene S. Hahnel

Henry Tietjens is a careful, experienced cattle feeder from near Bryant, Iowa. He generally feeds about 200 head a year on his 300-acre farm. The 1955-56 feeding season was his second using 'Stilbosol'-fortified supplements.

Mr. Tietjens *knows* exactly what his gains and costs are because he weighs his cattle regularly to keep track. It was his own set of records that sold him on the value of including supplements with 'Stilbosol' in his rations.

" 'Stilbosol'-fortified supplements increased my gains from 2.75 pounds per day to 3.14 pounds per day," Mr. Tietjens reports. "I could increase my gains in other ways, but the 'Stilbosol' way is much cheaper. I figure my gains are 4¢ per pound cheaper. That's the difference between profit and loss these days. I can't afford *not* to keep feeding 'Stilbosol.' "

Commenting on how much help was provided by his feed manufacturer, Tietjens says, "I could name several ways my feed manufacturer helps me. One way is to help me plan my management through a farm inventory. And, of course, they make sure I receive the latest feeding information that can help me increase my profits."

After a cattle-weighing session, Tietjens (left) and his feed manufacturer's representative, Harvey Schmidt, change guesses to facts by figuring gains and cost of gains on his cattle.

The average daily feedlot ration fed by Henry Tietjens consists of 15 pounds corn silage, 13 lbs. corn (half shelled, half corn-cob meal), 4 lbs. hay, and supplement fortified with 'Stilbosol.'

Stilbosol

(Diethylstilbestrol Premix, Lilly)

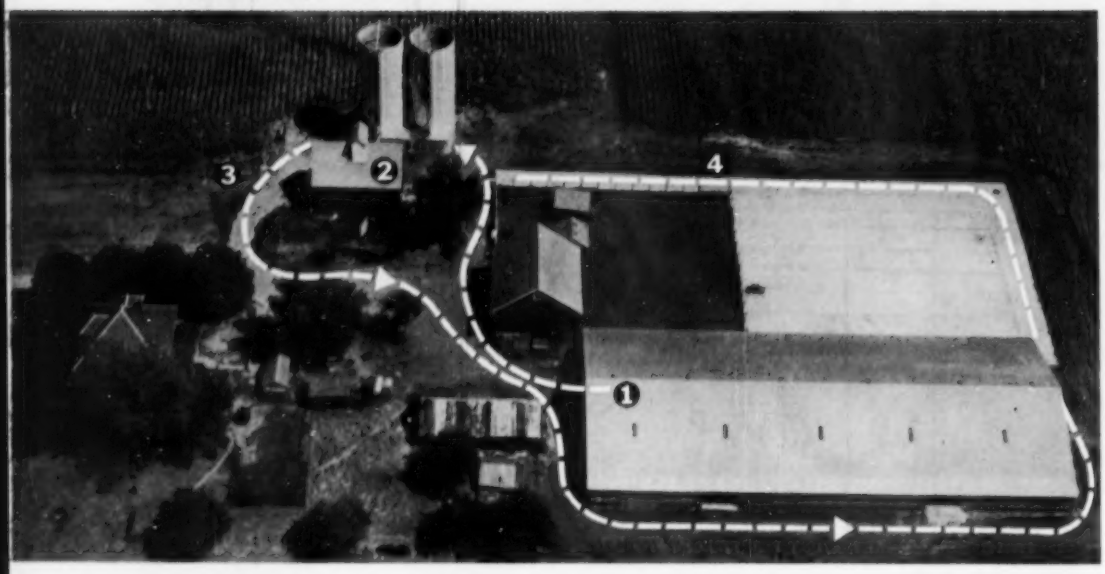
Lilly

'Stilbosol' is Eli Lilly and Company's trademark for Diethylstilbestrol Premix which is manufactured and sold under exclusive license granted by Iowa State College Research Foundation, Inc., under its U. S. Patent No. 2751303.

ELI LILLY AND COMPANY, AGRICULTURAL PRODUCTS DIVISION, INDIANAPOLIS 6, INDIANA

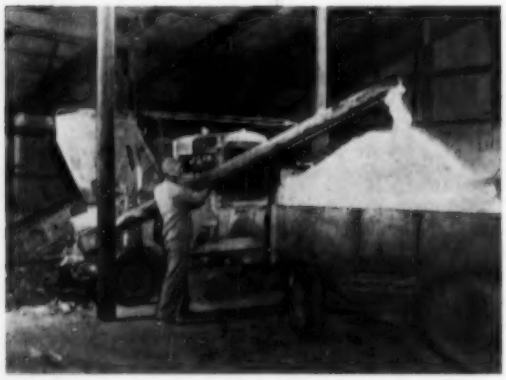
A feedlot with Built-in laborsavers

By Jack Everly



Cattle get a royal welcome at the newly constructed feeding setup operated by Joe Hodel and son, Ben, Roanoke, Illinois. Feedlot is designed for comfort as well as laborsaving

Photographs: Pease



1. First stop (see numbers on picture above) is end of pole-type cattle barn where ear corn is stored. Manure scoop is used to load corn into portable grinding unit. Ground corn can be elevated into self-unloading wagon or holding wagon

2. Second stop is to load up with oats, rye, or corn silage from one of two upright silos. Automatic silo unloader takes work out of this operation. Protein supplement is added to load when included in ration

3. Molasses is last item added. Motor-driven pump meters molasses out of underground storage tank. Each steer gets about 1¼ pounds per day. Molasses serves as an appetizer, conditioner, corn substitute. Trucks deliver it from Chicago

4. Complete ration is mixed while unloading into fence-line bunks. For comfort, concrete floor is covered with 1 to 3 feet of whole corncobs. Cobs are plowed every 3 to 4 weeks, turning down manure

Germ-killing furazolidone in

New disease-fighting booster feeds

kills off germs while it strengthens your birds

New, lifesaving furazolidone in high-level or booster feeds protects all types of poultry in a new, more effective way. It upsets disease germs' nutritional balance — throws the germs off feed until they starve to death. No resistant strains emerge to fight back. And the same low medication levels continue to prevent disease losses, year after year.

Boosts feed efficiency

This new, man-made germ killer frees your birds from the energy-robbing chore of fighting disease. It aids health and high production . . . helps birds get more from what they eat. As a result — you head off many laying slumps to keep production at a peak.

Safe for all poultry

There's never a trace of irritation . . . no unwanted "side effects" to slow down production . . . no harm to egg quality or hatchability. Furazolidone is completely safe for all poultry, livestock and pets. No danger even if accidentally overfed at twice the treatment level.

Feeds away flock troubles

Poultry experts say there are 30 or more *stress conditions* that give birds a bad time . . . and open the door to many secondary and non-specific infections. Here's where furazolidone really pays off with its germ-killing power.

Ever see a germ off feed?

Normal germs . . . get sick . . . and die.

Normal bacteria, when unhampered by drugs, grow in an orderly pattern. They thrive and multiply such as these common disease-causing organisms above.

When treated with the nitrofurans, germs get sick, go "off feed." Some die immediately. Others may become distorted, swell up and start to die.

But it's a losing battle, the end of the road for profit-robbing disease organisms. Unable to feed or multiply, germs starve to death and disintegrate.

Actual microscopic photographs before and after treatment with nitrofurans.

Look for lifesaving furazolidone on the tag

Furazolidone is effective in preventing and treating typhoid, paratyphoid, pullorum and synovitis. It also prevents most occurrences of CRD (air sac), blue comb (non-specific enteritis) and quail disease (ulcerative enteritis) in chickens. Furazolidone's disease-fighting power has been proved by years of university and Hess & Clark research . . . and by feeding to millions of birds.

one of those lifesaving

nitrofurans

germ-killers that last, from . . .

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25 for $5.50

Write for Free Evergreen Catalog

MUSSER FORESTS, Box 23-A Indiana, Pa.

Raising hogs

From page 32

Automatic watering. Electrically heated fountains supply fresh water to each pen. A 150-watt unit is used in each unit. The waterers are placed next to the feeders

swine production during the past few years:

- From a few sows, farrowed twice a year, to a more specialized operation of larger herds.
- Specialized feeds designed specifically for each period of the pig's life.
- A larger capital outlay yet more intensive use of buildings and equipment.
- More disease problems with increased hog population but with antibiotics, serums, and drugs to combat those diseases.
- From a haphazard method of selecting breeding sires to the use of tested and certified boars, making possible the economical production of meat-type hogs. They use a crossbreeding program, using registered sires of known quality.

Looking to the future, the Rothenbergers feel that the vast amount of research and testing will enable them to produce pork even more efficiently.

Starting September 1, boars are turned with the sows and gilts; however, half the boars are turned in one day and then replaced the next day with the rested boars. Breeding is stopped after 4 weeks and all unbred sows sold. During this period the sows are flushed by self-feeding the gilts 1 pound and sows ¾ pound of supplement per day.

During the winter the sows and gilts are housed in portable shelters located some distance from the feeding area. They are fed once daily, the amount varying according to their condition but usually amounting to 6 pounds per day.

Four or 5 days before farrowing, the sows are placed in a lot adjacent to the farrowing houses, allowed to eat a very bulky ration, and each sow becomes familiar with the individual house in which she will farrow. After farrowing she is permitted to eat from a self-feeder twice each day, drink, and exercise some. The remainder of the time she is shut in the house with her pigs.

After 7 to 10 days, depending on the need for the farrowing house by other sows, she and her pigs are moved into the new house with 2 other sows and pigs. Eventually 6 litters are placed in each bay (see picture on page 32). Creep feeding is begun after the second week.

After weaning, the sows are culled with the second-litter sows going to market. With weaning at 6 weeks the sows are permitted to pass through the first heat period and bred during the second period. This places them in better breeding condition. Breeding for fall litters starts March 10 with farrowing during July and first part of August.

During summer the sows run on alfalfa and Ladino pasture, receiving ½ pound supplement per day and a very limited feeding of grain, usually only 3 pounds per day.

The pigs are held in the barn until 8 weeks or until the rye is ready. Then the older pigs are sorted according to size and placed on 2-acre rye lots in bunches of 100. By the time the rotation pasture is ready (about May 1) the younger pigs are moved out to rotation pasture and the older pigs back into the barn to be finished. As these older pigs are marketed, pigs are moved from pasture back into the barn to be finished.

In the fall, sows farrow in pens in the cattle barn and then are moved into the hog barn with 4 litters per bay.

Here are the rations which are fed to the sows and market hogs:

During the summer, gilts are fed a mixture of 700 pounds corn, 1,000 pounds oats, and 300 pounds supplement. The sows receive a mixture during the summer of 850 pounds oats and 150 pounds supplement. Both sows and gilts are fed the same ration during the winter consisting of 1,000 pounds corn, 600 pounds oats, 200 pounds alfalfa, and 200 pounds supplement.

For a farrowing ration, the sows are fed a mixture of 500 pounds of corn, 500 pounds of oats, 500 pounds of bran, 300 pounds alfalfa, and 200 pounds supplement. This ration is self-fed in the spring and hand-fed in the fall.

For a nursing ration, the sows are fed a mixture of 900 pounds corn, 600 pounds oats, 200 pounds alfalfa, 200 pounds bran, and 100 pounds supplement. This gives the Rothenbergers a feed with 11.75 percent protein.

Up to 25 pounds, the pigs are fed an 18-percent commercial creep feed; up to 50 pounds a 16-percent commercial creep feed; to 75 pounds a 15-percent commercial creep feed. (If farm grains are much cheaper, a 15 percent feed is mixed on the farm using a highly fortified 40-percent supplement.) From 75 pounds to marketing, the protein level is gradually reduced to a level where the supplement content is only 5 percent at 200 pounds. The protein level is adjusted downward each time feed is placed in the feeders. All feeds are ground and mixed.

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Practical tips for

Why cultivate your garden unless you need the exercise? Mulching is a more efficient practice.

This advice comes from Victor H. Ries, Ohio State University extension floriculturist, who says mulching does a better job of catching and retaining rainfall than cultivation—and controls weeds just as well.

A mulch has an additional advantage over cultivation, according to Ries. During hot summer weather when soil temperatures reach the 70's and above, the roots of many plants go dormant and the plants stop growing. A 1- to 2-inch layer of organic matter acts as insulation and keeps the soil cooler. This prolongs plant growth during the summer.

Mulch tests at Ohio State showed chopped corncobs, with pieces about the size of the end of your thumb, gave the best results. Peat moss, straw, rotted leaves, sawdust, shavings, and fresh or rotted manure are other mulch materials which may be used. Grass clippings are satisfactory, too, Ries says, but he suggests you leave them on the lawn.

Time to apply a mulch is midspring after the ground has lost most of its excess moisture by drainage and evaporation. An inch layer is the minimum.

Mulch materials have practically no fertilizing value, Ries explains. To feed the bacteria decomposing the mulch material you should apply a fertilizer containing nitrogen before spreading the mulch. This prevents starvation of the plants. A complete fertilizer, such as 4-12-4, 5-10-5, or 5-10-10, is easy to get and apply. Use 1 to 2 pounds per 100 square feet and apply at least once a year.

Dwarf apple trees are ideal for home planting, says Frank Emerson, Purdue University extension horticulturist.

They bear at an earlier age and generally produce a higher percent of the crop in the better quality grade. Also, less time is required for pruning, the trees are easier to spray, and the fruit is easier to pick.

These characteristics have aroused the commercial apple grower's interest. Dwarf trees offer orchard growers the possibility of increased yields of better quality apples at a lower production cost.

However, Emerson says that while dwarf trees offer advantages, there is still much to learn about dwarf stocks and how they should best be grown. Very little is known about the ability of dwarf trees to withstand early fall freezes, and for this reason it is not advisable to make large-scale commercial plantings or to put any major part of a commercial orchard into dwarf trees.

Since dwarf apple trees are rather shallow rooted, irrigation may be necessary during dry summer months. The use of mulches to protect roots from severe summer heat and low winter temperatures, and to conserve moisture during dry weather is almost essential.

Two types of dwarf apple trees, Malling and Clark, are offered at present for sale to Indiana growers. In the Malling dwarf trees, a series of number rootstocks are available, each with its own characteristics and each giving a tree of different height. Malling IX is the most dwarfing of all the Malling rootstocks. It reduces the size of the tree to about 6 feet in height at maturity, bears one or two

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Malling II and VII have proved to be the best adapted dwarf trees for commercial plantings under Indiana conditions. Malling II and VII reach an average height at maturity of 12 to 16 feet with average yields of 5 to 9 bushels per tree.

Every year vegetable and potato growers spend thousands of dollars on seed, fertilizer, and labor. Then at cultivation time they lose much in way of potential yields because of improper cultivation, says Eugene Wittmeyer, Ohio State University extension horticulturist.

Those who grow tomatoes for processing can reduce their yield by a ton or more by cultivating too deep, too close to the plant, and too late in the season, Wittmeyer points out. The same applies to other vegetable and potato growers.

The principal reasons for cultivation are to control weeds and to prevent crusting of surface soil so water can penetrate readily to greater depths. To accomplish this, shallow cultivation—1 to 2 inches deep, is all that is needed. This will reduce power costs, too. Growers may want to cultivate deeper right after putting out plants or planting potatoes. This may be desirable in some cases, but with later cultivations, shallowness should be the goal.

Many vegetables are extremely shallow rooted. Onions, celery, lettuce, cabbage, spinach, and sweet corn, have shallow root systems compared to deep-rooted crops like asparagus, melons, lima beans, pumpkins, squash, and tomatoes. Crops with moderately deep-rooted systems include beans, beets, carrots, cucumbers, peppers, and turnips. However, all of these crops have a large proportion of their roots in the top 4 to 6 inches of the plow layer. Special attention should be given to the cultivation depth of the shallow and moderately deep-rooted crops, Wittmeyer says.

Gardeners with limited acreages and home gardeners can eliminate the later cultivation by mulching with straw, damaged hay, shavings or sawdust, ground corncobs and similar materials. The mulch, if applied deep enough, will prevent weed growth and will help to conserve soil moisture.

Many home gardeners have learned the value of a small amount of fertilizer applied in water poured around plants at planting time.

Several excellent soluble starter fertilizers are on the market. Common analyses include 10-52-17, 10-50-10 and 15-52-9. These should be used according to the manufacturers' directions. Usually this is about 3 pounds per 50 gallons of water or 1 ounce per gallon. At planting time, ½ pint of the solution may be poured around the plant, after which soil should be pulled in to fill the planting hole.

The starter fertilizer often results in sizable yield increases, a better stand of plants, and more uniformity at maturity. Starter fertilizers may be used with nearly all vegetable plants, such as peppers, tomatoes, cabbage, and broccoli.

In case the completely soluble fertilizers are not available, satisfactory sub-

[*Turn to page 94*

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Garden tips

From page 93

stitute is a complete fertilizer such as 4-16-8, 4-12-8, or similar analysis, high in phosphorus. Eugene Wittmeyer, Ohio State University extension specialist, advises using 10 pounds of the material to 50 gallons of water, or about 3-4 ounces per gallon. This is equivalent to about one cup per 10-quart bucket. The fertilizer should be dissolved by stirring several times. The undissolved residue remaining in the bottom of the bucket usually is conditioner or lime used in the fertilizer. It can be spread over the garden area.

The starter fertilizer is not a substitute for regular fertilizer programs, Wittmeyer points out.

Vineyard owners need to follow good tillage practices if they are looking for high yields of top quality grapes.

Horticulturist J. M. Beattie of the Ohio Agricultural Experiment Station says growers can attain such goals by following 3 basic tillage rules. All of them are based on the principle that the chief reason for cultivating is to remove the competition from weeds.

1. Hold off cultivation after a rain until the soil moisture content is low enough to permit crumbling rather than packing of the soil particles.
2. Cultivate to a depth of not more than 3 inches.
3. Cultivate only when weed foliage shades about 10 percent of soil surface.

One of the best vineyard tillage implements is the disc; a plow is one of the poorest, Beattie states. A disc can be used to knock down cover crop and weed growth without cutting more than 2 or 3 inches deep. Since grape roots are relatively close to the surface and spread laterally for several feet, deep tillage of any kind will cause root damage.

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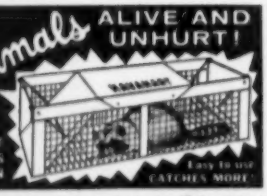

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Write today for your copy of this gorgeously colorful 60-page Planting Guide. Wonderful values in Evergreens, Shade Trees, Shrubs, Perennials, Roses, 'Mums, Bulbs, Fruit Trees, Berry Plants. 68th year.
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Cattle King Semi-Matic ROPE OILER

with **CONTROLLED OIL FLOW** From Built-in **SUPPLY TANK**

ONLY $24.50 As ill.

Giant rope rubbing element provides perfect rubbing surface. Built-in oil supply tank with adjustable seep valve keeps rope saturated at all times. Releases oil onto rope at any desired number of drops per minute. Built to take a beating! Spring protected! Animals can't tear it up. Won't wear it out. Easy to install. Attaches to *any* post, *anywhere*.

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Order direct from this ad, and get a season's supply of insecticide *with each oiler* — 1 qt. of Rotenone concentrate that mixes 1 to 20 with fuel oil to make 5 gals. of oil solution. Send cash with order and get *both* for only $28.50 postpaid. C.O.D. *plus postage*, if you prefer. Write —

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Cattle King Co., Box 114 Y, Omaha 12, Nebr.

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JUNG'S WAYAHEAD

BIG RED FRUITS RIPEN EARLY AS JULY 4th. Regular price 15c per pkt., but to introduce Jung's Quality Seeds we will send you a trial pkt. of Wayahead Tomato and also a pkt. of **GIANT HYBRID ZINNIAS** which bloom from early summer until frost and rival chrysanthemums in size and beauty. Both pkts. for 10c.

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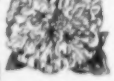

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*REGISTERED U. S. PATENT OFFICE

- TRUE-LINES laid 38 more eggs per hen, 1955 Official Laying Test record, than purebred averages
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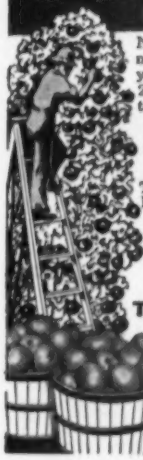

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Start Your Own Business On Credit. Your own boss. 1598 Dealers sold $5000 to $33,000 in 1955. We supply stocks, equipment on credit. 200 home necessities. Sales experience unnecessary. Pleasant, profitable business backed by world-wide industry. Write
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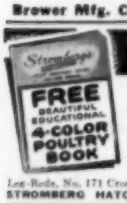

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Imported from Denmark for Key Breeder Matings. Larger, produces more and bigger eggs than standard Brown Leghorn. Beautiful NEW golden hackle LEGHORN. **Pedigreed Sired Mating,** wing-banded chicks from **trap-nest hens,** records up to 318 eggs. Also White Leghorns, Rocks, Reds, Anconas, Minorcas, Northern Whites.

Leg-Reds, No. 171 Cross.
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New **WHITE EGG SENSATION**

BOOTH-LINE No. 351

WIN 1956 MO. RANDOM SAMPLE TEST

In competition with America's Best Breeders of Increasbred and Purebred hens Booth-Line 351's, a new type white egg layer, made Highest Net Income ever made in the Missouri test . . . $4.55 per hen over feed and chick costs.

287 Egg Ave. In 1956 Penn. Test

Averaging 287 eggs and 309 pulets per hen, Booth-Line No. 351 won their class in the 1956 Pennsylvania test, full year livability 100%.

Bred direct from our World Champion Bloodlines, Booth-Line 351's are more vigorous, more resistant, have higher livability, lay more top grade eggs, have uniformity of size and are bred to eliminate blood and meat spots.

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'Empire' Strain Broad Breasted Whites, size and type of the Bronze. Broad Breasted Bronze, famous Oregon strains. Westline No. 951 Strain Cross Bronze. Beltsville Small Whites. Free Catalog.
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Increase Turkey Profits! America's only all-turkey magazine tells how. Each issue packed with latest raising and marketing advice, helpful ideas. Bargain offer—9 months $1.00. Subscribe Today!
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Turkeys. Broad Breast Bronze, Broadwhites, Beltsville Whites, 45c up. Cooper Hatchery, Oakwood, Ohio.

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SENSATIONAL WHITE EGG Hybrid.

Mrs. Ann Davies

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Write me today for pictures of **Speckled TROJANS, Austra Hy-birds, White Egg Hollands** and Champion Laying **Leghorns,** together with new feed formulas that help cut feed buying to ½ and increase egg production. I'll also send a new **ball point pen** or simulated, Imported Pearl Necklace as a get-acquainted gift (enclosing 10c for handling and mailing appreciated.)

Roosting Age PULLETS Cheaper Than you can raise them. Also **SQUAB Age,** Started Chickens 19c up.

MRS. ANN DAVIES

RUCKER'S Hy-birds, Dept. 125, Ottumwa, Iowa, Dept. 225, Defiance, Ohio, Dept. 425, Middlecreek, Pa., Dept. 325, Bethany, Missouri.

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Cherries, pears, plums, nut trees, strawberries, blueberries, dwarf fruit trees. Grapevines 10c. Shrubs, evergreens, shade trees, roses 25c up. Quality stock can't be sold lower. Write for FREE color catalog and $2.00 FREE bonus information.

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FARNAM "ALL-PURPOSE" TRAK-TOR SPRAYER

Powered By NYRO "Nylon-Roller" Pump

This is the pump proved best for work and wear. Develops plenty of pressure and volume for *any* and *all* spraying jobs on the farm.

UP TO 350 LBS. PRESSURE

Volume — 4½ Gals. Per Minute At Normal PTO Speed!

3 SPRAYERS IN ONE

Change **NOZZLE TIPS And You Have**

(1) High Pressure "Gun Type" Sprayer for livestock, orchards, buildings. (2) 54-ft. "Wide-Jet" Sprayer for crop and field work. (3) 27-ft. "Wide-Jet" (one-side) Sprayer for fence rows, ditches, roadsides.

WRITE For Catalog showing complete line of Trak-Tor Sprayers, *all at new low prices.* Also details of "30-Day Trial Plan." Sent air-mail! Mail coupon or write —

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Dept. 46 Omaha, Nebraska

FARNAM COMPANIES Dept. 46
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Send Trak-Tor Sprayer Catalog, new low prices and details of "30-Day Trial Plan" to

Name _____

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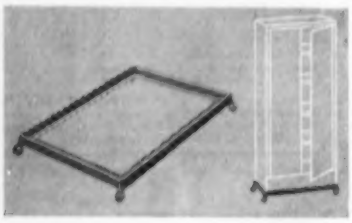
All around the farm. A page written by our readers

To remove old paint or varnish from flat areas, I coat surfaces generously with paint remover and cover them immediately with sheets of waxed paper. This prevents the remover from drying until every bit of paint is loosened and ready to remove with a scraper.—*R. E. F., Kansas.*

For easy moving of cabinets without removing the contents, I have welded angle irons to make a dolly to fit the bottom of cabinets (see drawing below). I welded chest casters on the un-



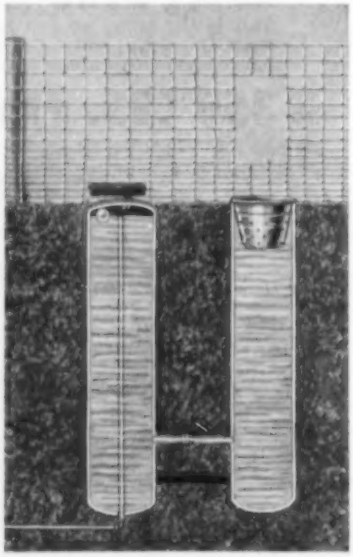
derside of the dolly. The cabinet is set in the frame and can be moved easily. Old bed rails can be used as angle irons.—*C. M. R., South Dakota.*

To prevent rust on the rear axle shafts of tractors, I use a strip of belting or leather strap 2″ wide and about 16″ long. This is looped around shaft and wired together at the ends. The strap travels freely back and forth between the wheel and axle housing when the tractor is in motion, thus polishing the shaft. It is much easier to move the wheels back and forth on polished axle shafts than on rusty ones.—*C. F. S., Michigan.*

To cut veneer or plywood without splintering I lay out the piece to be sawed, marking cut line with a pencil. I then place a straightedge or square on the line. With a sharp knife I cut into the pencil line with a firm pressure on the blade, as though a pencil were being used. Any tendency to splinter will halt at the knife cut. This will result in a neat, uniform piece of plywood or veneer that is free of any damage.—*J. K., Ohio.*

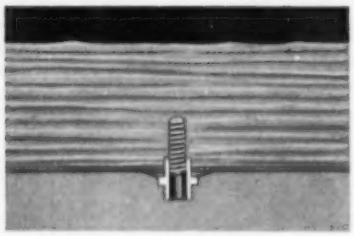
I store matching nuts and small screws and bolts separately in glass jars (as shown above) with lids of the respective jars joined together by bolting, riveting, or soldering. The jars store compactly.—*S. C., Florida.*

I roughened the slick-surface running board on my pickup with a welder by clamping ground terminal to running board, dragging electrode along the surface.—*B. B., Nebraska.*



For a fuel-line strainer I use a small, closely wound spring that fits snugly in a brass fitting (as shown in drawing below). The top of the spring is closed by squeezing the spring, or soldering it to the fitting if necessary. If the spring used is too closely wound it can be stretched very slightly to open it enough for fuel passage.

This strainer and connection idea has saved the work of removing some hard-to-get-at tanks, and has prevented sediment from getting into the fuel lines between tank and filter. This is an inexpensive idea.—*A. A., Minnesota.*



Our automatic cattle waterer is made from 2 salvaged upright range boilers side by side in the ground (as shown in drawing below left), with just 3″ or 4″ above the ground level. Tanks are 18″ apart. They are connected by a pipe near the bottom in the original outlet fittings. One is covered with an insulated lid, the other is open for the cattle to drink from.

The covered tank or boiler has the inlet water pipe entering at the bottom and coming to the top where a float control valve keeps the waterer full. Natural heat from the lower ground, with the aid of artificial heat, keeps tanks from freezing.

We put a fence between the waterer and the cattle with an opening in the fence for the cattle to reach through to the waterer. Also, we put an old bucket with holes punched in the side in the tank to catch dirt and feed that might otherwise settle to the bottom of the tank. Water can enter through punched sides of the tapered bucket. The tanks were joined together by several welded rods before being lowered into the ground.—*W. S., Illinois.*

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—The Editors

they make your harvest sing

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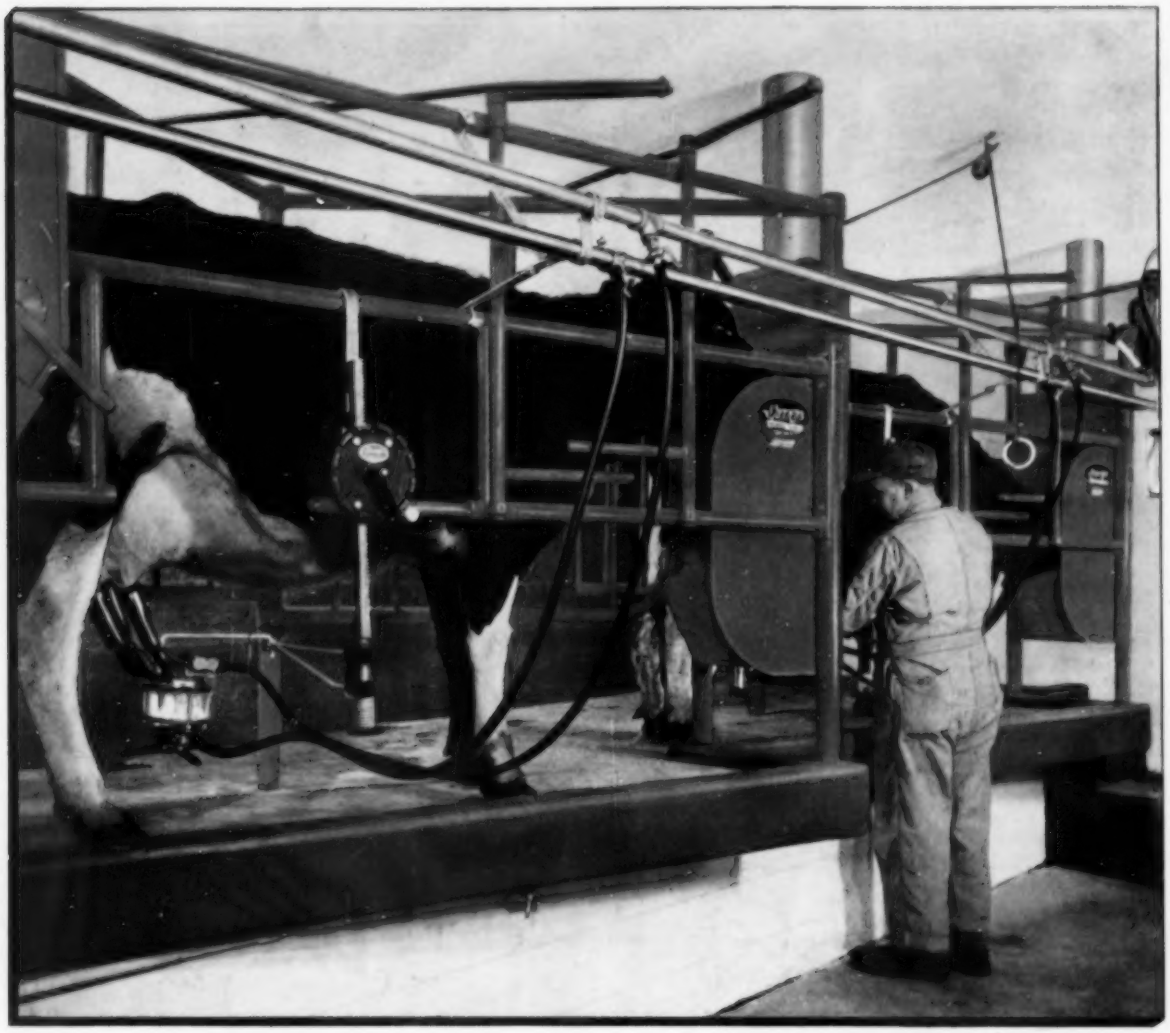

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